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Atty. Dkt. No. 46983/101

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: A. Maxwell Eliscu
Title: SYSTEM FOR AND METHOD OF
PROVIDING FINANCIAL AND
TRANSACTION MANAGEMENT
SERVICES OVER A NETWORK
Appl. No.: Unknown
Filing Date: Unknown
Examiner: Unknown
Art Unit: Unknown

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Chris Escaville (Signature)	

UTILITY PATENT APPLICATION
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Assistant Commissioner for Patents
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Sir:

The application claims the benefits of U.S. Provisional Application No. 60/230,856, filed 09/07/2000. Transmitted herewith for filing under 37 C.F.R. § 1.53(b) is the nonprovisional utility patent application of:

A. Maxwell Eliscu

Enclosed are:

- ☒ [X] Specification, Claim(s), and Abstract (87 pages).
- ☒ [X] Informal drawings (47 sheets, Figures 1-38).
- ☒ [X] Declaration and Power of Attorney (3 pages).
- ☒ [X] Assignment of the invention to LSQ II, LLC.
- ☒ [X] Assignment Recordation Cover Sheet.
- ☒ [X] Check in the amount of \$40.00 for Assignment recordation.
- ☒ [X] Small Entity statement.
- ☐ [] Information Disclosure Statement.

[] Form PTO-1449 with copies of ___ listed reference(s).

The filing fee is calculated below:

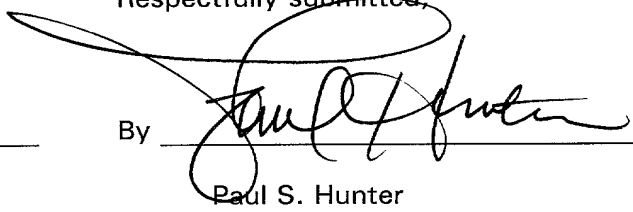
	Claims as Filed	Included in Basic Fee	Extra Claims	Rate	Fee Totals
Basic Fee				\$690.00	\$690.00
Total Claims:	71	- 20	= 51	x \$18.00	= \$918.00
Independents:	11	- 3	= 8	x \$78.00	= \$624.00
If any Multiple Dependent Claim(s) present:				+ \$260.00	= \$0.00
				SUBTOTAL:	= \$2232.00
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- [X] A check in the amount of \$1,116.00 to cover the filing fee is enclosed.
- [] The required filing fees are not enclosed but will be submitted in response to the Notice to File Missing Parts of Application.
- [X] The Assistant Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 C.F.R. §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 06-1447. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Assistant Commissioner is authorized to charge the unpaid amount to Deposit Account No. 06-1447.

Please direct all correspondence to the undersigned attorney or agent at the address indicated below.

Respectfully submitted,

Date Sept. 20, 2000

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APPLICANT OR PATENTEE: A. Maxwell Eliscu Docket No.: 46983/101
SERIAL OR PATENT NO.: _____
FILED OR ISSUED: _____
FOR: SYSTEM FOR AND METHOD OF PROVIDING FINANCIAL AND TRANSACTION
MANAGEMENT SERVICES OVER A NETWORK

**STATEMENT CLAIMING
SMALL ENTITY STATUS (37 CFR 1.9(f) and 1.27(c))
SMALL BUSINESS CONCERN**

I hereby declare that I am:

- ☐ the owner of the small business concern identified below.
☒ an official of the small business concern empowered to act on behalf of the concern identified below.

NAME OF CONCERN: LSQ II, LLC

ADDRESS OF CONCERN: 1 South Orange Avenue, Suite 405, Orlando, Florida 32801

I hereby declare that the above identified small business concern qualifies as a small business concern as defined in 13 CFR 121.3-18, and reproduced in 37 CFR 1.8(d), for purposes of paying reduced fees under Section 41(a) and (b) of Title 35, United States Code, in that the number of employees of the concern, including those of its affiliates, does not exceed 500 persons. For purposes of this statement, (1) the number of employees of the business concern is the average over the previous fiscal year of the concern of the persons employed on a full-time, part-time or temporary basis during each of the pay periods of the fiscal year, and (2) concerns are affiliates of each other when either, directly or indirectly, one concern controls or has the power to control the other, or a third party or parties controls or has the power to control both.

I hereby declare that rights under contract or law have been conveyed to and remain with the small business concern identified above with regard to the invention, entitled:

SYSTEM FOR AND METHOD OF PROVIDING FINANCIAL AND TRANSACTION
MANAGEMENT SERVICES OVER A NETWORK

by inventor(s) A. Maxwell Eliscu
described in:

- ☒ the specification filed herewith
☐ application serial no. _____, filed _____
☐ patent no. _____, issued _____

If the rights held by the above-identified small business concern are not exclusive, each individual, concern or organization having rights to the invention is listed below* and no rights to the invention are held by any person, other than the inventor, who would not

qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e). NOTE: Separate verified statements are required from each named person, concern or organization having rights to the invention averring to their status as small entities. (37 CFR 1.27)

NAME: _____

ADDRESS: _____
☐ Individual ☐ Small Business Concern ☐ Nonprofit Organization

NAME: _____

ADDRESS: _____
☐ Individual ☐ Small Business Concern ☐ Nonprofit Organization

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

I hereby declare that all statements made herein are of my own knowledge, are true and that all statements made on information and belief are believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

NAME OF PERSON SIGNING: A. Maxwell Eliseu

TITLE OF PERSON OTHER THAN OWNER: Manager

SIGNATURE [Signature] DATE 9-7-00

U.S. PATENT APPLICATION

For

**SYSTEM FOR AND METHOD OF PROVIDING FINANCIAL AND
TRANSACTION MANAGEMENT SERVICES OVER A NETWORK**

Inventor: A. Maxwell Eliscu

SYSTEM FOR AND METHOD OF PROVIDING FINANCIAL AND TRANSACTION MANAGEMENT SERVICES OVER A NETWORK

FIELD OF THE INVENTION

The present invention relates generally to transaction management and financial services. More particularly, the present invention relates to a system for and a method of providing financial and transaction management services to small companies. Additionally, the present invention relates to a system for and a method of receiving referrals from referring parties, including independent lenders, insurance companies, leasing companies, governmental groups (e.g, local, state, federal, international), business to business web portals or e-commerce marketplaces or any party referring businesses who may be seeking or may benefit from the transaction management and financial services provided by the system.

BACKGROUND OF THE INVENTION

Small businesses are traditionally forced to spend a significant amount of resources on tasks that are unrelated to the main focus of their business. Examples of these tasks for a small business acting as a Seller include obtaining financing, managing financing transactions, identifying potential commercial customers, determining viability and suitability of potential commercial customers (e.g., credit evaluation), engaging commercial customers, completing orders for the commercial customers, preparing and managing all the paperwork associated with the commercial transaction, managing accounts receivable which are the outcome of a commercial transaction with the engaged customer for which credit terms were extended, receiving payments on accounts receivable, applying those received payments, preparing deposit tickets and depositing received payments, handling disputes over commercial transactions, managing relationship with commercial customers, etc. Examples of these tasks for a small business acting as a Buyer include locating commercial concerns capable of providing requested products and services, requesting financing, providing and transferring the information requested by the located commercial concern in order to approve the requested financing,

obtaining financing (e.g., domestic trade credit, net 30 net 60), preparing and sending purchase orders, receiving product or service, receiving commercial transaction documentation which may include detail concerning the amount and date moneys are owed, confirming the accuracy of commercial transaction

- 5 documentation, scheduling requests for payment, on the scheduled date identifying that sufficient funds are available to make payment, initiating payment, reconciling and closing the commercial transaction, etc.

Traditionally, managing these tasks either for a Seller or a Buyer requires significant resource allocation as Sellers and Buyers utilize traditional tools
10 (e.g., phone calls, voice mail messages, faxes, mail, etc) to approve and manage their relationships with each other, the commercial transactions resulting from those relationships, and the commercial transactions documents resulting from those transactions. Larger businesses are able to handle many of these transactions using automated systems and properly staffed and trained departments. Additionally, they
15 often offer transactional services to their customers over the Internet. Small businesses generally are not able to dedicate the same level of human or technological resources to these administrative functions as their larger counterparts. Driving this inequity are the scale and capital base required to justify the human and technological investment made by larger companies.

- 20 Small businesses also face problems when they seek to offer business to business e-commerce services to their customers. E-commerce can replace phone calls, faxes, invoicing, direct sales, and other communication means traditionally used in buying, selling, and post-sales customer support between businesses. However, business to business e-commerce poses challenges for small businesses.
25 For example, small companies do not generally have the resources to implement e-commerce solutions or gain real time knowledge regarding new customers.

Thus, there is a need in the marketplace to facilitate and/or conduct business to business financial and transaction management services for small

companies, thereby alleviating internal workload constraints and saving business managers and owners from unnecessary distractions.

Small businesses also face difficulties when obtaining financing from traditional financing institutions. In many cases, small business are unable to meet a financial institution's minimum criteria, and are thus declined for the requested financing. As financial institutions have a substantial investment in the distribution channels (e.g., branch network, sales force, Internet, brand awareness, etc.) necessary to attract prospective customers and migrate existing customers to new products and services, declining small businesses for financing creates enormous sunk costs for financial institutions. Further, being declined by a financial institution forces small businesses to seek financing elsewhere, requiring them to repeat the financing request process.

The traditional referral model, which is designed to extract value from customers that are declined for financing—"declinations"—or that are referred for other reasons, is cumbersome and incapable of recouping the substantial value that exists within these declinations. In the traditional referral model, financial institutions seek to extract value from these declinations by recommending or providing information on alternative solution providers. Although such alternative solution providers may not be owned by the financial institution, suggesting an alternative solution provider lessens the negative effect of the financial institutions' inability to meet the financing needs of its customers and prospects. The financial institution may also be able to obtain fee income from the alternative solution providers.

The traditional referral process, which is paper-intensive and includes little if any automation, breeds inefficiencies as financial institutions seek to compile, refer, track, and manage referrals to alternative solution providers. In addition, as financial institutions refer declinations to alternative solution providers and declinations become the customers of these alternative solution providers, financial institutions erode their relationship, access, and brand exposure to

declinations. As a result of this erosion, financial institutions cannot fully leverage the value to the franchise which may exist within the declinations.

Thus, there is a need for an automated system and method that manages and tracks declinations and referrals. There is a further need for a system that allows financial institutions or any other party that may provide referrals to more completely recoup the sunk cost that exists within their declined customers and prospects, but cannot be captured through the traditional declination and referral model. More generally, there is a need for a system and method for referring parties in a manner which improves and deepens the relationship between the referring party and the referred party. Further, there is a need for a system and method for financial institutions to automate the delivery of targeted content, products, and services to declinations. Further still, there is a need for a declination referral model that provides alternative credit offers to small businesses not qualifying for credit from a financial institution. Yet even further, there is a need to enable a plurality of financial institutions to seamlessly deliver a full complement of banking products and services to declined customers and prospects while retaining access and maintaining brand exposure to these declined customers and prospects.

SUMMARY OF THE INVENTION

One aspect of an exemplary embodiment of the invention relates to a method of providing an integrated financial and transaction management services system over a network. The method includes aggregating commercial transaction information associated with a commercial transaction, including images, to a central server computer configured to be accessed by a remote device, communicating the commercial transaction information between the central server computer and the remote device, and displaying commercial transaction information on a user interface at the remote device, whereby a seller and a buyer can do any one of access, manage, modify, maintain, and conclude their commercial transactions.

Briefly, another exemplary embodiment relates to a system including an electronic storage device, a communication module, and a processing module.

The electronic storage device can maintain commercial transaction information for a plurality of companies. The communication module can communicate commercial transaction information between a central server and a remote device, enabling the plurality of companies access to commercial transaction information. The

5 processing module can perform operations on the commercial transaction information communicated by the communication module and stored by the database. The commercial transaction information operations are associated with financial and transaction management services.

Briefly, another exemplary embodiment relates to an integrated
10 financial and transaction management services system. The system includes means for aggregating commercial transaction information associated with a commercial transaction, including images, to a central server computer configured to be accessed by a remote device, means for communicating the commercial transaction information between the central server computer and the remote device, and means
15 for displaying commercial transaction information on a user interface at the remote device, whereby a seller or a buyer can access their commercial transactions.

Briefly, another exemplary embodiment relates to a method of aggregating information on providers of commercial transaction management services, trade credit analysis services, credit guaranteeing services. In this method,
20 commercial transaction management services, trade credit analysis services, and credit guaranteeing services include services which facilitate any one of the management, maintenance, modification, and conclusion of commercial transactions, trade credit, and credit guaranteeing. This method includes aggregating indicia of providers of commercial transaction management services,
25 trade credit analysis services, credit guaranteeing services; communicating the indicia for presentation at a remote device; and receiving from the remote device a communication indicative of a selection of a provider of commercial transaction management services, trade credit analysis services, credit guaranteeing services.

Briefly, another exemplary embodiment relates to a method of aggregating information on providers of technology enabling any one of the management, maintenance, modification, and conclusion of commercial transactions, trade credit analysis, and credit guaranteeing. This method includes

5 aggregating indicia of providers of technology enabling any one of the management, maintenance, modification, and conclusion of commercial transactions, trade credit analysis, and credit guaranteeing; and communicating the indicia of providers of technology enabling any one of the management, maintenance, modification, and conclusion of commercial transactions, trade credit analysis, and credit guaranteeing

10 for presentation at a remote device.

Briefly, another exemplary embodiment relates to a method of compiling information on providers of commercial transaction management services, trade credit analysis services, and credit guaranteeing services. In this method, the services include services which facilitate any one of the management, maintenance,

15 modification, and conclusion of commercial transactions, trade credit analysis, and credit guaranteeing. This method includes compiling a list of names and information associated with providers of commercial transaction management services, trade credit analysis services, and credit guaranteeing services; and communicating the list associated with providers of commercial transaction

20 management services, trade credit analysis services, and credit guaranteeing services for presentation at a remote device.

Briefly, another exemplary embodiment relates to a method of providing a guarantee as to the financial ability of a buyer to pay commercial obligations to a seller. This method includes communicating information on a buyer

25 to guarantee providers, in which the guarantee providers include any one of credit insurance companies, factoring companies, and companies providing guarantees of commercial concerns' ability to pay obligations; receiving responses from the guarantee providers; and presenting at least one response to a seller.

Briefly, another exemplary embodiment relates to a method of providing a guarantee as to the financial ability of a buyer to pay commercial obligations to a seller. The method includes evaluating a buyer to determine whether the buyer meets system-determined underwriting criteria, the system-determined underwriting criteria being variables used to determine the financial ability of the buyer to pay commercial obligations and whether the system should assume the risk of non-payment due to financial inability; and if the buyer does not meet system-determined underwriting criteria, seeking an alternative provider for the guarantee by determining whether sufficient information exists to match application information on a buyer with required underwriting information provided as part of the underwriting guidelines of a plurality of alternative guarantee providers; and, if the required underwriting information exists, matching application information on the buyer to underwriting guidelines of a plurality of alternative guarantee providers and determining whether one or more matches exist.

Briefly, another exemplary embodiment relates to a method of providing a guarantee as to the financial ability of a buyer to pay commercial obligations to a seller. This method includes evaluating the buyer to determine whether the buyer meets system-determined underwriting criteria, the system-determined underwriting criteria being variables used to determine the financial ability of the buyer to pay commercial obligations and whether the system should assume the risk of non-payment due to financial inability; and if the buyer does not meet system-determined underwriting criteria: communicating information on a buyer to guarantee providers, wherein the guarantee providers include any one of credit insurance companies, factoring companies, and companies providing guarantees of commercial concerns' ability to pay obligations; receiving responses from the guarantee providers; and presenting at least one response to a seller.

Briefly, another exemplary embodiment relates to a method of providing a guarantee as to the financial ability of a buyer to pay commercial obligations to a seller. This method includes determining whether sufficient

information exists to match application information on a buyer with required underwriting information provided as part of the underwriting guidelines of a plurality of alternative guarantee providers; if the required underwriting information exists, matching application information on a buyer to underwriting guidelines of a plurality of alternative guarantee providers and determining whether one or more matches exist; and presenting the one or more match to a seller.

Briefly, another exemplary embodiment relates to a method of aggregating information on providers of commercial transaction management services. In this method, the commercial transaction management services include guaranteeing credit. This method includes aggregating indicia of providers of commercial transaction management services; and communicating the indicia for presentation at a remote device.

Other features and advantages of embodiments of the present invention will become apparent to those skilled in the art upon review of the following drawings, the detailed description, and the appended claims.

BRIEF DESCRIPTION OF THE DRAWINGS

The invention is illustrated by way of example and not limitation in the figures of the accompanying drawings, in which like references indicate similar elements and in which:

FIGURE 1 is a general diagrammatical representation of an environment of operation for a transaction management and financial services system in accordance with an exemplary embodiment of the invention;

FIGURE 2 is a diagrammatical representation of exemplary operational aspects of the transaction management and financial services system illustrated in FIGURE 1;

FIGURE 3 is a diagrammatical representation of exemplary operations of a marketplace in the transaction management and financial services system illustrated in FIGURE 1;

5 FIGURE 4 is a general diagrammatical representation of an application infrastructure for an exemplary embodiment of the transaction management and financial services system illustrated in FIGURE 1;

FIGURE 5 is a general diagrammatical representation of an electronic commerce architecture used by an exemplary embodiment of the transaction management and financial services system illustrated in FIGURE 1;

10 FIGURE 6 is a diagrammatical representation of an exemplary embodiment of an e-commerce architecture used in the transaction management and financial services system illustrated in FIGURE 1;

15 FIGURE 7A is a flow diagram illustrating an exemplary process of alternative financing arrangements provided in partnership with a referring party in the transaction management and financial services system illustrated in FIGURE 1;

FIGURE 7B is a flow diagram illustrating an exemplary method for meeting financing needs in the transaction management and financial services system illustrated in FIGURE 1;

20 FIGURE 7C is a flow diagram illustrating an exemplary method for meeting financing needs in the transaction management and financial services system illustrated in FIGURE 1;

FIGURE 8A is a diagrammatical representation of an exemplary embodiment of transaction management and financial services system 100 configured to interact with a business to business (B2B) portal to provide trade credit underwriting and commercial transaction management services to B2B portal participants;

25

FIGURE 8B is a flow diagram illustrating an exemplary process of trade credit underwriting in an exemplary embodiment of the transaction management and financial services illustrated in FIGURE 1;

5 FIGURE 8C is a flow diagram illustrating an exemplary process of obtaining credit insurance/guaranty in the transaction management and financial services system illustrated in FIGURE 1;

FIGURE 8D is a flow diagram illustrating an exemplary process of receiving and processing a request for a credit guarantee in the transaction management and financial services system illustrated in FIGURE 1;

10 FIGURE 9 is a flow diagram illustrating an exemplary method used in an accounts receivable management system implemented in the transaction management and financial services system illustrated in FIGURE 1;

FIGURE 10 [was removed];

15 FIGURE 11 is a flow diagram illustrating an exemplary method for providing an on-line letter of credit used in the transaction management and financial services system illustrated in FIGURE 1;

FIGURE 12 is a flow diagram illustrating an exemplary method used in the customization process of the transaction management and financial services system illustrated in FIGURE 1;

20 FIGURES 13A-C are flow diagrams illustrating exemplary processes of participant access to the transaction management and financial services system illustrated in FIGURE 1;

FIGURE 13D is a flow diagram illustrating operational aspects of an exemplary embodiment of the transaction management and financial services system
25 illustrated in FIGURE 1 in partnership with electronic portals;

FIGURE 14 is a flow diagram illustrating an exemplary method for providing a front end system to handle information submitted to the transaction management and financial services system illustrated in FIGURE 1;

5 FIGURE 15 is a flow diagram illustrating an exemplary method for processing and analyzing applications submitted to the exemplary front end system shown in FIGURE 14;

FIGURE 16A is a flow diagram illustrating exemplary steps in a factor underwriting process in the transaction management and financial services system illustrated in FIGURE 1;

10 FIGURES 16B-C are flow diagrams illustrating an exemplary alternative screening process for finding alternative funding sources in the transaction management and financial services system illustrated in FIGURE 1;

15 FIGURE 17 is a flow diagram illustrating exemplary steps in a factor underwriting process in the transaction management and financial services system illustrated in FIGURE 1;

FIGURE 18 is a flow diagram illustrating exemplary steps in a trade credit underwriting process in the transaction management and financial services system illustrated in FIGURE 1;

20 FIGURE 19 is a flow diagram illustrating exemplary steps in a trade credit underwriting process in the transaction management and financial services system illustrated in FIGURE 1;

FIGURE 20 is an exemplary screen display illustrating an initial welcoming screen in the transaction management and financial services system illustrated in FIGURE 1;

FIGURE 21 is an exemplary screen display illustrating a log-in feature in the transaction management and financial services system illustrated in FIGURE 1;

5 FIGURE 22 is an exemplary screen display illustrating an account statement for a user of the transaction management and financial services system illustrated in FIGURE 1;

10 FIGURE 23 is an exemplary screen display illustrating a pop up window displaying products and services associated with a financial services partner of the transaction management and financial services system illustrated in FIGURE 1;

FIGURE 24 is an exemplary screen display illustrating a pop up window displaying an exemplary invoice for a customer of the transaction management and financial services system illustrated in FIGURE 1;

15 FIGURE 25 is an exemplary screen display illustrating a pop up window displaying a web site for a tracking company displaying information relevant to an account in the transaction management and financial services system illustrated in FIGURE 1;

20 FIGURE 26 is an exemplary screen display illustrating a listing of invoices for a customer of the transaction management and financial services system illustrated in FIGURE 1;

FIGURE 27 is an exemplary screen display illustrating an account statement where a user of the transaction management and financial services system illustrated in FIGURE 1 has elected to dispute one of the invoices listed in the account;

25 FIGURE 28 is an exemplary screen display illustrating a pop up window that is created when the user enters the dispute illustrated in FIGURE 27;

FIGURE 29 is an exemplary screen display illustrating another pop up window that is created when the recipient of the dispute illustrated in FIGURE 27 elects to respond to the dispute;

5 FIGURE 30 is an exemplary screen display illustrating the account status for a buyer using the transaction management and financial services system illustrated in FIGURE 1;

10 FIGURE 31 is an exemplary screen display illustrating a pop up window that is created when the seller viewing the screen display of FIGURE 30 makes an advance request that is greater than the amount of funds available to that seller;

FIGURE 32 is a flow diagram illustrating an exemplary method for processing the request for funding shown in FIGURE 30;

15 FIGURE 33 is an exemplary screen display illustrating a window including communication functionality available to a buyer in the transaction management and financial services system illustrated in FIGURE 1;

FIGURE 34 is an exemplary screen display illustrating the selection of one row of information associated with an invoice that can be communicated using the communication functionality available to a buyer in the transaction management and financial services system illustrated in FIGURE 1;

20 FIGURE 35 is an exemplary screen display illustrating a collections activity related to a seller in the transaction management and financial services system illustrated in FIGURE 1;

FIGURE 36 is an exemplary screen display illustrating an image of a check payment accessed from the screen display illustrated in FIGURE 35;

25 FIGURE 37 is an exemplary screen display illustrating an image of an invoice accessed from the screen display illustrated in FIGURE 35; and

FIGURE 38 is an exemplary screen display illustrating a window including communication functionality available to a seller in the transaction management and financial services system illustrated in FIGURE 1.

DETAILED DESCRIPTION OF THE EXEMPLARY EMBODIMENTS

5 A system for and method of providing financial and transaction management services over a network are described. In the following description, for purposes of explanation, numerous specific details are set forth in order to provide a thorough understanding of exemplary embodiments of the invention. It will be evident, however, to one skilled in the art that the invention may be
10 practiced without these specific details. In other instances, well-known structures and devices are shown in block diagram form in order to facilitate description of the exemplary embodiments of the invention.

In one embodiment, a computer system is used which has a processing unit that executes sequences of instructions contained in a memory.

15 More specifically, execution of the sequences of instructions causes the processing unit to perform steps, which are described below. The instructions may be loaded into a random access memory (RAM) for execution by the processing unit from a read-only memory (ROM), a mass storage device, or some other persistent storage. In other embodiments, hardwired circuitry may be used in place of, or in
20 combination with, software instructions to implement the present invention. Thus, the embodiments described herein are not limited to any specific combination of hardware circuitry and software, nor to any particular source for the instructions executed by the computer system.

FIGURE 1 illustrates a transaction management and financial services
25 system 100 that is configured to communicate with network 110. Network 110 can be the Internet, a worldwide network of computer networks that use the TCP/IP network protocols to facilitate data transmission and exchange. In such an embodiment, network 110 provides communication with Hypertext Markup

Language (HTML) web pages or any other type of presentation format, such as, formats used in WAP phones or any other communication device. In alternative embodiments, network 110 is any type of network, such as, a virtual private network, an intranet, a WAN, a LAN, or extranet.

5 System 100 is configured to communicate with any number of small businesses, such as, small business 120, small business 130, and small business 140. Small business 120 can, for example, communicate with system 100 via network 110 or via a direct communication link 150. Small businesses 120, 130, or 140 can communicate with system 100 using a personal computer, a personal digital assistant
10 (PDA), a telephone, or any other device enabled to communicate information to system 100. Businesses 120, 130, and 140 can be associated with any type of commerce, including retail, distribution services, manufacturing, design, etc.

 System 100 can communicate with a small business (one of businesses 120, 130, 140) via a financial institution. For example, in one
15 embodiment, small business 130 communicates with system 100 via a financial institution 150 connected to network 110. In another embodiment, a financial institution 160 is configured to communicate with system 100 via network 110. In another embodiment, a financial institution 170 is directly coupled to communicate with system 100 without communication via network 110. Financial institutions
20 150, 160, and 170 can be banks, credit unions, loan companies, or any entity offering financial services.

 FIGURE 2 illustrates operational aspects of an exemplary embodiment of transaction management and financial services system 100. In one embodiment, transaction management and financial services system 100 establishes
25 a marketplace, such as marketplaces 201, 202, 203 and 204 further described below with reference to FIGURE 3. A marketplace is an operational environment configured to allow interactions among and between participants in system 100. Participants in system 100 can include financial institutions (institutions 150, 160, 170); buyers; sellers; advertisers; local, state, federal and international

governmental bodies; or professional service providers. In one embodiment, each marketplace can be associated with a referring party, such as, a financial institution. Association with a referring party can include providing screen displays which give a look and feel that furthers brand exposure of the referring party, a look and feel which comports with the brand image of the referring party in which an impression is created that the operations of transaction management and financial services system 100 are being performed by the referring party, or a look and feel which comports with the brand image of the referring party in which an impression is created that the operations of transaction management and financial services system 100 are being performed in affiliation with the referring party.

A referring party can be financial institution, an independent lender, an insurance company, a leasing company, a governmental group (e.g, local, state, federal, international), a business to business Web portal or e-commerce marketplace or any party referring businesses who may be seeking or may benefit from the transaction management and financial services provided by system 100, or that has entered into a marketing relationship with transaction management and financial services system 100. In an exemplary embodiment, marketplaces 201, 202, 203 and 204 are associated with financial institutions 231, referring party 232, 233, and B2B web site 234, respectively.

Each marketplace is also associated with at least one buying community. A buying community is a collection of buyers and sellers utilizing the operations of marketplace 201, provided via system 100. In an exemplary embodiment, marketplaces 201, 202, 203, and 204 are also associated with buying communities 211, 212, 213, 214, 221, 222, 223 and 224. The interrelation between the marketplace, the referring party and the associated buying communities are described below with reference to FIGURE 3.

FIGURE 3 illustrates an exemplary embodiment of marketplace 201 that is configured to interact with buying communities 211 and 221 and financial institution 231. Buying communities 211 and 221 consist of at least one buyer and

at least one seller. Marketplace 201 includes a data warehouse 301, an image repository 302, and a profiling module 303. Exemplary processes carried out in marketplace 201 can include financing 700, trade credit underwriting 800, and commercial transaction management 900.

5 Marketplace 201 provides buyers and sellers in buying communities 211 and 221 with access to services offered by both financial institution 231 and transaction management and financial services system 100. For example, system 100 provides financing, trade credit underwriting, and commercial transaction management. One embodiment of financing in system 100 is described below with
10 reference to FIGURE 7. One embodiment of trade credit underwriting is described below with reference to FIGURE 8. One embodiment of commercial transaction management is described below with reference to FIGURE 9.

In an exemplary embodiment, marketplace 201 can be implemented as a plurality of customized web pages in which participants interact with other
15 participants in marketplace 201 and in which the web pages contain advertisements for services offered by financial institution partner 231, feature the logo of the financial institution partner 231, or any other desirable customization, including content. Advantageously, these web pages allow participants a convenient forum for managing, maintaining, modifying, and concluding all commercial transactions
20 or financing related services. Similarly, a web page custom created based on the participant's stored profile allows the financial institution for that marketplace to provide target marketing to the participants while enhancing brand exposure and deepening customer relationships. Customization may include brand information associated with the referring party. As explained above, brand information may be
25 used to indicate that operations offered in marketplace 201 are offered in affiliation with a referring party or, alternatively, that operations in marketplace 201 are being performed by a referring party.

In an exemplary embodiment, data warehouse 301 provides a storage device used by marketplace 201 to store data, including commercial transaction

information, ancillary commercial transaction information, and all other information captured during and resulting from the operations of marketplace 201 (e.g., trade credit underwriting, commercial transaction management, financing). Image repository 302 stores images, including images associated with commercial transaction information, ancillary commercial transaction information, and all other images captured during and resulting from the operations of marketplace 201. Commercial transaction information can include commercial transaction data and images of the documents evidencing the transaction, such as, invoices, purchase orders, shipping documentation, check copies, check remittance information, credit memos, time tickets, or any other documentation associated with commercial transactions. Ancillary commercial transaction information can include information obtained from external parties, such as, electronic shipping information, bank account information, or any other information necessary to manage, maintain, modify, and conclude commercial transactions. These images can be displayed on a plurality of screen displays or used in some other fashion to assist the participants and system 100 in managing, maintaining, modifying, and completing the operations of marketplace 201.

In one embodiment, image repository 302 stores images of documents involving off-line transactions. As such, obtaining commercial transaction information includes receiving electronic commercial transaction information, receiving paper-based commercial transaction information, converting the paper-based commercial transaction information into an electronic format, and storing the received commercial transaction information in image repository 302.

By storing images and data within the marketplace, participants have real-time (or near real-time) access to all commercial transaction information, whether created online or off-line necessary to manage, maintain, modify, and conclude commercial transactions. Conventionally, a business needing to send commercial transaction information to another party is forced to retrieve the documents containing the requested information from records departments, filing

cabinets, or computer records. Then, the documents must be either faxed or mailed to the requesting party. In contrast, transaction management and financial services system 100 allows commercial transaction information to be instantly called up and simultaneously communicated to the requesting party. Preferably, commercial transaction information is stored in a web server, database, or any such structure capable of electronic data storage. An exemplary infrastructure is described below with reference to FIGURE 4.

In an exemplary embodiment, profiling module 303 can be used by system 100, participants, and external users to analyze the data (including commercial transaction information, ancillary commercial transaction information, and all other information captured during and resulting from the operations of marketplace 201) in data warehouse 301. The analysis enabled by profiling module 303 results in the creation of a profile for a user, which can be either a specific company user or a specific individual user within a company. In addition to data analysis, the profiling module 303 allows the customization of: the content presented to the user, the look and feel presented to the user, the advertisements presented to the user, the brand images presented to the user, and other information presented to the user.

In an exemplary embodiment, profiles are stored in databases or on a web server. The profile is based in part on unique information gathered by system 100 and in part on external information. The information stored can include the size of the business, number of years in operation, the industry of the business, the nature of the business including whether it manufactures, wholesales, distributes or retails the product it sells, payment records, purchase records, banking records, credit record, and a summary of any transactions conducted in transaction management and financial services system 100, as well as other information.

Profiling module 303 shown in FIGURE 3 allows transaction management and financial services system 100 to deliver highly customized products, services, advertisements, and content to marketplace participants. For

example, an advertiser or financial institution can market products and services based on any aspect or a combination of aspects in a profile. Because the advertisement can be highly specific, targeting the needs, interests, wants, problems, and other characteristics identified through profiling module 303,

5 participants will receive content, advertisements, product and service offerings, screen display customization, and other information which is more likely to provide benefit. In addition, participants are unlikely to be subjected to advertising, content, product and service offerings, etc. which are not aligned with their needs, wants, interests, etc..

10 FIGURE 4 illustrates an exemplary embodiment of an application infrastructure 400 for system 100. Infrastructure 400 is configured to communicate with an internal user 410 and with external users, such as, a business-to-business (B2B) company 420 or an external user 430 via a network 440. Infrastructure 400 can include a firewall 450, a presentation layer 455, an integration and scalability

15 tier 460, middleware 465, a database 470, application software package 475, and an application software package 480.

Firewall 450 is any software, hardware, or combination of hardware and software that attempts to prevent unauthorized users from gaining access to a computer network or that monitors transfer of information to and from the network.

20 Presentation layer 455 may include a number of components that provide user interface functions as well as business to business middleware services. In one embodiment, presentation layer 455 includes a server 457 and application specific programs (ASPs) 459. Tier 460 provides integration and scalability. In one embodiment, tier 460 includes an application server 462 and common services 463

25 and 464. Tier 460 provides a common interface to application packages and database, or the “back end”.

Middleware 465 is any software that mediates between an application program and a network, managing the interaction between disparate applications across heterogeneous computing platforms. For example, Object Request Broker

(ORB) is middleware that manages communication between objects. Middleware 465 communicates with a database 470, application package 475, and application package 480.

5 The application infrastructure described with reference to FIGURE 4 has the advantage of allowing external user 430 and business to business site 420 to communicate with system 100 over network 440. By allowing communication over network 440, participants can access the information and functionality offered by system 100 from anywhere.

FIGURE 5 illustrates an electronic commerce architecture 500 used
 10 by an exemplary embodiment of system 100. Architecture 500 can include a set of core web services 510 that can be accessed by supply chain participants 520 and service providers 530. Core web services 510 can include any of a variety of services, such as, on-line payment, Internet searching, personalization, and any other activity possible with a network of computer networks. Supply chain
 15 participants 520 can include financial institutions, B2B e-commerce marketplaces, buyers, sellers, and others involved in the supply chain. Web services 510 use data such as business rules 540 and a document repository 550. Web services 510 also interacts with an application environment and data module 560. Content origination services 570 and administrative services 580 also provide information to web
 20 services 510.

Electronic commerce architecture 500 has the advantage of allowing participants, such as, supply chain participants 520, service providers 530, administrative services 580, and content origination services 570 to have access to core web services 510. The system is scalable and flexible to allow for growth,
 25 varied technologies among participants, future technology changes, varied interface methodologies, and future changes in interface methodologies.

FIGURE 6 illustrates an electronic commerce architecture 600 used by an exemplary embodiment of system 100. Architecture 600 includes a core of

web services 610. The core of web services 610 includes web services, application environment, payment services, security services, search services, personalization services, branding services, and middleware. Web services 610 can be accessed and activated by participants 620, such as, financial institutions, B2B players, buyers, sellers, or any other supply chain participant. Additionally, participants 630, such as, employees, sales, marketing, and finance personnel can communicate with web services 610 to access and participate in the services contained therein. Web services 610 also includes business rules 640 and a document repository 650. Business rules 640 may include personalization rules, branding rules, and direct marketing rules used in providing the various web services of web services 610. Document repository 650 may include a product catalog, purchase order applications, marketing materials, and transaction history records and images to assist in the carrying out of the services provided by web services 610.

In addition to participants 620 and participants 630, various modules are in communication with web services 610 to augment services to participants 620 and 630. For example, an applications environment and data module 660 may be in communication with web services 610 to provide a variety of operations, such as, credit decision engines, a general ledger, a directory, document management storage, an underwriting application, customer profiling, customer profiling database, A/R management and invoicing, portfolio management, and underlying risk database. Also in communication with web services 610 can be a content origination services module 670. Content origination services module 670 may include content deployment, such as, document publishing and application distribution from approvers, librarians, publishers, or developers, as well as content and application creation by HTML editors, internet application development tools, conversion tools, design tools, and dynamic content generation.

Also in communication with web services 610 is an administrative services module 680, including access control, site management, and analysis, such as, customer profiling, seller/buyer reporting, and benefit reporting. Applications

environment and data module 660, content origination services module 670, and administrative services module 680 can be provided in software, hardware, or a combination of software and hardware.

Advantageously, electronic commerce architecture 600 provides financial and transaction management services to participants 620, as described in greater detail with reference to FIGURES 7-32. Participants 620 are provided with the opportunity to obtain financing; to facilitate revenue growth; to manage, maintain, modify, and conclude off-line and on-line commercial transactions utilizing electronic commerce architecture 600. Electronic commerce architecture 600 also provides financial institutions with an opportunity to redirect declined credit applications, and other entities with a destination for finance referrals.

FIGURES 7A illustrates a flow diagram 701 of an exemplary process of alternative financing arrangements provided in partnership with a referring party. In diagram 701, an existing customer 761 and target customer 762 of referring party 780, submit applications to referring party 780. Following the submission of an application, referring party 780 can either approve the application, in a step 790, or decline the application, in a step 791. If the referring party declines the application, in step 791, there are two likely outcomes, either the financing seeking party remains with the referring party, but is dissatisfied, in a step 792, or the financing seeking party severs its relationship with the referring party, in a step 793. In an exemplary embodiment, the referring party seeks to maintain its relationship and brand exposure with/to financing seeking parties 761 and 762.

In one embodiment, if the financing request of financing seeking party 761 or 762 is declined, referring party 780 forwards the application for financing, in a step 794, to transaction management and financial services system 100 for review and approval. Transaction management and financial services system 100 then seeks to meet the financing need as further described with reference to FIGURE 7B. Two outcomes are possible—first, transaction management and financial services system 100 approves the financing request, in a step 795, in which

case referring party 780 is able to offer an alternative solution to financing seeking parties 761 and 762, or—second—transaction management and financial services system 100 declines the financing request, in a step 796, in which case no harm has been done.

5 In an exemplary embodiment, all steps described with reference to FIGURE 7A can be completed using the Internet. FIGURES 7B illustrates a flow diagram 702 of an exemplary process of alternative financing arrangements in transaction management and financial services system 100. The exemplary process follows the declination referral model described above with reference to FIGURE
10 7A, in which financing seeking parties are referred to transaction management and financial services system 100 by a referring party and are provided with alternative financing arrangements in lieu of a standard decline in financing from the referring party. In another embodiment, a referral is received from a referring party where no decline has been made, as described further with reference to FIGURE 13D.

15 In a step 710 (which follows from step 794 in FIGURE 7A), a referring party refers a financing seeking party to transaction management and financial service system 100. In an exemplary embodiment, the referring party is a bank, an independent lender, or any other financial institution offering financing. After step 710, a step 713 is performed in which a client screening process is
20 performed to determine whether the referred client is a satisfactory client. One embodiment of a client screening process is described below with reference to FIGURE 16B and 16C.

After step 713, a step 715 is performed in which the financing seeking party is offered a proposal for financing by transaction management and
25 financial service system 100. In an exemplary embodiment, this proposal for financing is made in the name of the referring party, on behalf of the referring party, in connection with the referring party or as the result of a relationship with the referring party by transaction management and financial service system 100 via a web interface. In another exemplary embodiment, the screen display at a remote

device accessing transaction management and financial service system 100 is customized to further the brand exposure of the referring party. A representative of transaction management and financial service system 100 can make this proposal for financing in person, by mail, by telephone, over the Internet, or by any other communication method. Following step 715, a step 720 is performed in which the financing seeking party either accepts or declines the proposal for financing. If the referred client declines proposal for financing, a gracious exit procedure 725 is performed.

If the referred client chooses to accept the proposal for financing in step 720 a credit extension procedure is performed in step 750 (FIGURE 7C). In an exemplary embodiment, this proposal for financing comprises an offer for receivables based financing. In this embodiment, a step 730 is performed. In step 730, the financing seeking party submits accounts receivable to transaction management and financial service system 100. In one embodiment, the financing seeking party meets with financial personnel of transaction management and financial service system 100 to arrange for transaction management and financial service system 100 to provide accounts receivable financing. Alternatively, the arrangement for transaction management and financial service system 100 to provide accounts receivable financing can be conducted completely over the Internet, or any other method of communication. In yet another embodiment, the submission and financing of the accounts receivable can be conducting completely over the Internet, or any other method in which transaction management and financial service system 100 obtains referrals. Advantageously, the expertise, economies of scale, and unique methods of transaction management and financial service system 100 make it much less expensive and time consuming for transaction management and financial service system 100 to make a proposal to and provide financing for the financing seeking party.

Following submission of the accounts receivable in step 730, a step 735 is performed in which the transaction management and financial service system

100 uses internal standards to evaluate the accounts of the referred client. In an exemplary embodiment, transaction management and financial service system 100 extends credit based on the value of the account receivable. Based on the review in step 735 by transaction management and financial service system 100, a credit extension procedure, step 750 is performed. In an exemplary embodiment, an account is set up for the financing seeking party in marketplace 201 (described with reference to FIGURE 3). In another embodiment, marketplace 201 is accessed by the financing seeking party via the Internet. In yet another embodiment, the financing seeking party accesses and manages the financing provided by transaction management and financial service system 100, or an alternative financing provider, via marketplace 201. Advantageously, marketplace 201 allows the referring party to maintain access to and brand exposure with declined financing seeking parties. In addition, marketplace 201 allows the referring party to gain access to and develop brand exposure with the buying community of financing seeking parties. In an exemplary embodiment, each participant in the marketplace has a buying community.

Following step 750, a step 755 is performed in which the financing seeking party has the option of submitting additional accounts receivable to transaction management and financial service system 100. If the financing seeking party chooses to submit additional accounts, the financing seeking party is cycled back to the account evaluation step 735. Alternatively, if the financing seeking party does not submit additional accounts, transaction management and financial service system 100 assists in, or facilitates the management, maintenance, modification and conclusion of the transactions.

According to an exemplary embodiment, all of the steps in flow diagram 700 can be performed via the Internet. Web pages and e-mail messages can be used to exchange the necessary information between transaction management and financial service system 100 and financing seeking parties and referring parties.

FIGURE 8A illustrates a diagram 800 showing how an exemplary embodiment of transaction management and financial services system 100 can be configured to interact with a business to business (B2B) portal 860 to provide trade credit underwriting and commercial transaction management services to participants of B2B portal 860. In diagram 800, a buyer 861 wants to purchase product from a seller 862, utilizing the technological resources of B2B portal 860 to market and conduct commercial transaction over the Internet. In one embodiment, buyer 861 may not be able to purchase product using credit cards. For various reasons, ranging from insufficient credit card availability to lack of approval from a procurement department for non-standard purchasing terms, buyer seeks to establish credit terms with seller for the purchase of goods and services through B2B portal 860. Seller 862, a small business with limited credit staff and history selling to firms over the Internet, has opted to participate in the trade credit analysis and commercial transaction management services offered by B2B portal 860, through transaction management and financial services system 100.

In an exemplary embodiment, in a step 870, a purchase order (P.O.) is issued by buyer 861 and sent through B2B portal 860, in step 871 to system 100 (described further with reference to FIGURE 14 below). In another embodiment, the P.O. is issued and mailed directly to Seller 862. In still another embodiment, the P.O. is sent, electronically or via paper based P.O., to transaction management and financial services system 100. Were it not for the exemplary embodiment of transaction management and financial services system 100 converting the commercial transaction documentation to electronic format, including images (described with reference to FIGURE 14), the commercial transactions would be moved off-line.

Transaction management and financial services system 100 analyzes buyer 861, and, in a step 872, forwards the P.O. and recommendation/guarantee on to seller (described with reference to FIGURE 18 and FIGURES 8C-D). Seller 862, if approving of the recommendation or accepting of the guarantee, ships its

product or provides its services to buyer 861. In a step 873, Seller 862 forwards an electronic invoice for payment to B2B portal 860. The invoice is further forwarded to transaction management and financial services system 100 in a step 874a and then on to buyer 861, in a step 874b. In an exemplary embodiment, the invoice is
5 forwarded electronically, through B2B portal 860 to system 100. In another embodiment, a paper based invoice is created by Seller 862 and forwarded to System 100 and/or Buyer 861. Transaction management and financial services system 100 converts the commercial transaction documentation to electronic format, including images (described below with reference to FIGURE 14), thereby avoiding
10 the creation and forwarding of paper-based invoices and the moving of the commercial transaction off-line.

In another embodiment, Buyer 861, in step 876, pays transaction management and financial services system 100 directly. In an exemplary embodiment, payment can be made via electronic transmission or paper based
15 payment. If payment is made via electronic transmission, System 100 applies the payment based on the electronic remittance advice and makes all information available to Buyer 861 and Seller 862 for the management, maintenance, modification and conclusion of the commercial transaction. If a paper based payment is received, system 100 applies the payment based on the paper based
20 remittance advice, converts the paper based payment information and remittance advice to electronic format, including images (described with reference to FIGURE 14), and makes all information available to Buyer 861 and Seller 862 for the management, maintenance, modification and conclusion of the commercial transaction.

25 Advantageously, system 100, in partnership with B2B Portal 860, provides liquidity to the marketplace by providing Seller 862 with a mechanism to identify and analyze, at the time of inquiry by Buyer 861, the ability of Buyer 861, located through B2B portal 860, to repay its commercial obligations. In addition, the partnership of B2B Portal 860 and system 100 ensures that any commercial

transaction initiated online, can be managed online, regardless of whether subsequent commercial transaction steps performed by Buyer 861 or Seller 862, are performed online or via more traditional paper based methods. Another advantage is that B2B Portal 860 does not lose access to Buyer 861 and Seller 862 as they

5 otherwise move their online transactions offline. A further advantage is the ability of system 100 to migrate commercial transactions, initiated offline, with buying communities 891, 892 and 893, online, and to provide B2B Portal 860 with access, brand exposure and targeted content, service and product delivery to these communities.

10 FIGURE 8B illustrates a flow diagram 850 of an exemplary process of trade credit (e.g. net 30, net 60) underwriting in one embodiment of transaction management and financial services system 100. In particular, flow diagram 850 illustrates a transaction between a buyer and a seller in a marketplace. The buyer seeks to receive standard credit terms relating to the payment for a product or

15 service intended to be purchased from a seller that is a participant in transaction management and financial services system 100.

In a step 810, a customer's application for trade credit is received by transaction management and financial services system 100 from any one of: an account the buyer maintains with transaction management and financial services

20 system 100; the seller, through an account the seller maintains with transaction management and financial services system 100; a link from a business to business e-commerce marketplace; a link from a referring party web site; or from any other source. After step 810, a step 811 is performed in which transaction management and financial services system 100 analyzes the credit request in an attempt to

25 provide a recommendation concerning the Buyer's ability to pay. Alternatively, transaction management and financial services system 100 analyzes the credit request in an attempt to provide information which can be used by the Seller to make a decision concerning the Buyer's ability to pay. Alternatively, transaction management and financial services system 100 could analyze the request for

purposes of guaranteeing the customer's ability to pay. In another alternative, a step 812 is performed, in which transaction management and financial services system 100 seeks bids, from external sources, for guarantees of the customer's ability to pay. After step 811 or step 812, a decision is made in step 813 as to whether there is sufficient information to make a decision as to the recommendation (step 311) or the guarantee (step 812). If there is sufficient information, a step 815 is performed. If there is not sufficient information, a step 814 is performed in which additional information is sought. After step 814, a step 817 is performed in which a determination is made as to whether there is sufficient information. If there is still not enough information, there is a gracious exit to the process. If there is now sufficient information, step 811 or step 812 is performed.

In step 815, transaction management and financial services system 100 transmits a credit recommendation and/or guarantee to a seller. In an exemplary embodiment, the recommendation and/or guarantee is communicated to seller via the Internet. In another embodiment, transaction management and financial services system 100 transmits the application for trade credit to external entities that provide credit guarantees. After step 815 is performed, a step 820 is performed in which the seller accepts or rejects the credit recommendation or guarantee made by transaction management and financial services system 100. In another embodiment, seller does not notify transaction management and financial services system 100 of its acceptance or rejection. If seller communicates to system 100 an "accept", a step 824 is performed in which the buyer is notified of the acceptance of the trade credit approval. In an exemplary embodiment, an account is created for the buyer in transaction management and financial services system 100. Upon notification of the approval of the buyer's request for trade credit, a step 825 is performed in which a purchase order (PO) is created by the buyer's accounting system and transmitted to the transaction management and financial services system 100.

In an exemplary embodiment, the PO is forwarded to transaction management and financial services system 100 using the Internet. In another embodiment, a paper based PO is forwarded to transaction management and financial services system 100 and transaction management and financial services system 100 converts the PO to electronic format, electronic format including images. In another embodiment, the purchase order is transmitted buy the buyer directly to the seller. In an exemplary embodiment, the purchase order is created in transaction management and financial services system 100. In another embodiment, a purchase order is created using the capabilities of a business to business e-commerce marketplace, and transmitted to either the seller, to transaction management and financial services system 100, or both. In all cases, the receipt of a purchase order by transaction management and financial services system 100 from a buyer, a business to business e-commerce marketplace, or any other source, other than from the seller, triggers transaction management and financial services system 100 to forward the purchase order to the seller. In an exemplary embodiment, transaction management and financial services system 100 transmits the purchase order to the seller using the Internet.

After step 825, a step 830 is performed in which the seller fulfills the terms of the purchase order. After step 830, a step 835 is performed in which the seller creates an invoice for the product or service created or performed in fulfillment of the purchase order. In an exemplary embodiment, the invoice can be created using transaction management and financial services system 100. In this case, transaction management and financial services system 100 provides a step 836 in which seller initiates a transmission from transaction management and financial services system 100 which is formatted by transaction management and financial services system 100 to allow seller to electronically update its accounting system located at a remote device. After step 836, a step 837 is performed in which transaction management and financial services system 100 forwards the invoice to the buyer, with any additional commercial transaction information, such as shipping information. In an exemplary embodiment, the invoice and additional commercial

transaction information is forwarded to the buyer using the Internet. In another embodiment the invoice is created using the functionality of a business to business e-commerce marketplace, and transmitted to the buyer and transaction management and financial services system 100 using the Internet.

5 In yet another embodiment, the invoice is created using the functionality of a business to business e-commerce marketplace, and is sent only to the buyer. In still another embodiment, the invoice is created using the accounting system of seller and the seller forwards the invoice and other commercial transaction information, such as shipping information, to the buyer. In still another
10 embodiment, the invoice is created using the accounting system of seller and the seller forwards the invoice and other commercial transaction information to the buyer and to transaction management and financial services system 100. In an exemplary embodiment, the seller forwards the invoice and additional commercial transaction information to transaction management and financial services system 100
15 and the buyer, using the Internet.

In another embodiment, the seller forwards a paper based invoice and other commercial transaction information to transaction management and financial services system 100 and transaction management and financial services system 100 converts the paper-based invoice and other commercial transaction information to
20 electronic format, electronic format including images. After step 837, a step 840 is performed in which the customer pays transaction management and financial services system 100. In an exemplary embodiment, the customer pays transaction management and financial services system 100 electronically. Alternatively, the customer pays system 100 using a wire payment, check, credit card, cash, Internet
25 account, or any other payment means. In one embodiment, transaction management and financial services system 100 receives an electronic payment, applies the payment to the invoices identified on the electronic remittance information and deposits the proceeds in the account of the seller. In another embodiment, a non-electronic based payment is received by transaction management and financial

services system 100. In this embodiment, transaction management and financial services system 100 will deposit the proceeds to the account of the seller, apply the payment in accordance with the remittance advice, and convert all paper based payment information, including check and remittance advice to electronic format, electronic format including images. In an exemplary embodiment, all payment information, both electronic and paper based, is available through transaction management and financial services system 100. In another embodiment, all buyers and sellers can utilize functionality within transaction management and financial services system 100 to electronically update and reconcile accounting systems located at a remote device.

Advantageously, transaction management and financial services system 100 improves liquidity in the marketplace by providing real time or near real time trade credit underwriting services, accelerating the collection and cash application process through electronic and high volume paper based payment processing, improves transactional reporting and efficiency and reduces transaction costs by providing a central electronic repository and electronic transaction management functionality for online and off-line commercial transaction information generated during interactions between buyers and sellers. Regardless of how trade credit requests are created and received, purchase orders are created and received, invoices are created and received, payments are created and received, transaction management and financial services system 100, converts to electronic format, including images, commercial transaction documentation, applies all payments, closes all invoices and allows buyers and sellers to access all transaction information via the Internet, phone, or any other communication devices and vehicles. Also, because buyers and sellers can utilize functionality within transaction management and financial services system 100 to electronically update and reconcile accounting systems located at remote devices, data entry and human error can be avoided, and buyers and sellers can be freed to focus on their core competencies.

If seller communicates to system 100 a “decline” of the trade credit recommendation in step 820, a step 855 is performed in which transaction management and financial services system 100 provides a gracious notice that an extension of trade credit is unavailable at the time. In another embodiment, further described below with reference to FIGURE 19, if insufficient information is available to transaction management and financial services system 100, at the time of a trade credit request, to provide an approval or guarantee of the trade credit request, transaction management and financial services system 100 initiates steps to acquire additional information. In an exemplary embodiment, additional information is acquired using the Internet.

According to an exemplary embodiment, all of the steps in flow diagram 850 described with reference to FIGURE 8B can be performed via the Internet. Web pages and e-mail messages can be used to exchange the necessary information between system 100 and buyers, sellers, financial institutions, business to business e-commerce marketplaces and other participants.

FIGURE 8C illustrates a flow diagram 870 of an exemplary process for obtaining credit insurance/guarantee in transaction management and financial services system 100. In the process, a step 875 is performed in which a request for a trade credit guarantee is received from a trade credit guarantee seeking party. After step 875, a step 876 is performed, in which transaction management and financial services system 100 transmits the request for a credit guaranty to providers of credit insurance/guarantees, seeking bids from the providers of credit insurance/guaranties to provide a guaranty on the submitted account. In a step 877, the providers of credit insurance/guaranties respond to transaction management and financial services system 100 with bids. In a step 878, transaction management and financial services system 100 transmits the most attractive bid to the credit guarantee seeking party. In a step 879, corresponding to step 820 (FIGURE 8B) the credit guarantee seeking party accepts or rejects the offer.

FIGURE 8D illustrates a flow diagram 880 of an exemplary process of receiving and processing a request for a credit guarantee in transaction management and financial services system 100. In this process, transaction management and financial services system 100 receives a request for trade credit

5 guarantee from a trade credit guarantee seeking party in a step 887. In a step 888, system 100 matches the application information and any information residing in electronic storage devices of transaction management and financial services system 100, and feeds the data into an expert system designed to match the risk profile of the buyer against the underwriting guidelines of a plurality of providers of credit

10 insurance/guaranties. If there is no match, a step 890 is performed, where transaction management and financial services system 100 graciously declines the guaranty request. If, on the other hand, a match is found, steps 891 and 892 are performed, where transaction management and financial services system 100 notifies the matched provider of credit insurance/guaranties and the seller, that the request

15 has been approved.

FIGURE 9 illustrates a flow diagram 900 of an exemplary process for commercial transaction management in transaction management and financial services system 100. In a step 905, transaction management and financial services system 100 receives an invoice and additional commercial transaction information,

20 such as shipping information and purchase orders, from a seller for management within transaction management and financial services system 100. In one embodiment invoices and additional commercial transaction information can be received directly from a seller, via fax, email, direct input into transaction management and financial services system 100 or other delivery methods. In

25 another embodiment, invoices and other commercial transaction documentation can be received from a business to business e-commerce marketplace or other electronic market. Following receipt of an invoice, a step 910 is performed in which the invoice (if not in an electronic format) is converted to an electronic format and stored in transaction management and financial services system 100.

In a step 915, links, such as, hypermedia links to the electronic document are made available to both the buyer and seller in the transaction via the Internet. An account summary for each participant is also updated to display the new invoice and provide links to information relevant to the invoice. In one
5 embodiment, the account summary for a buyer includes all outstanding invoices owed, including all commercial transaction information for the invoices. In another embodiment, the account summary for a seller includes an aged list of all invoices outstanding, the payee, and all commercial transaction information concerning the invoices. Advantageously, as transaction management and financial services system
10 100 receives additional commercial transaction information, such as credit memos, payments, dispute notices, shipping information, etc., transaction participants can have instant and convenient access to all of the information for any given transaction via the Internet. In an exemplary embodiment, system 100 uses a web page to display the account summary and hypermedia links to other information related to
15 the account.

Following the update of the account summary and display of links in step 915, a step 920 is performed in which the payor on the invoice is notified of the new remittance address and the online capability which is available through transaction management and financial services system 100. In an exemplary
20 embodiment, notice is sent via the Internet. In another embodiment, notice is sent via mail, fax or other paper based formats. In another embodiment, the payor is emailed an electronic statement of their account, with hypermedia links to other information related to the account, as well hypermedia links to their account page within transaction management and financial services system 100. In an exemplary
25 embodiment, the electronic statement of account contains electronic payment selectivity on an invoice specific basis. In another embodiment, the electronic statement of account contains hypermedia links to corporate bank account aggregation functionality. In an exemplary embodiment, this account aggregation functionality allows the payor to select the account to pay from, retrieve real time or
30 near real time bank account information, and perform all online banking tasks from

within transaction management and financial services system 100. In another embodiment, this account aggregation functionality allows the payor to select the account to pay from, as well as to utilize hypermedia links to selected online bank accounts.

5 In another embodiment, when a payor has “clicked” on a hypermedia link to an online bank account, transaction management and financial services system 100 communicates appropriate security codes and certificates to the financial institution and directly accesses, from within the financial institution’s web site, online bank account information with “one click” of a mouse. In another
10 embodiment, the electronic statement of account contains electronic dispute selectivity on an invoice specific basis. In an exemplary embodiment, the payor can click on any invoice and begin dispute resolution procedures. Dispute resolution is described further below with reference to FIGURE 28. In another embodiment, transaction management and financial services system 100 mails and faxes a paper
15 based account statement. In another embodiment, payor is sent paper based invoice information. In an exemplary embodiment, invoice information can be sent via email, fax, mail or any other method. Following this contact, a step 922 is performed in which the payor either submits payment or not. If the payor submits payment, a step 925 is performed in which the payment is received by transaction
20 management and financial services system 100. In an exemplary embodiment, payment is received electronically via wire, ACH, electronic check, or some other electronic payment mechanism. In another embodiment, payment is received via mail and consists of a paper check, or some other paper based payment mechanism. Next, a step 930 is performed in which the account summary is updated to reflect
25 the payment of the account.

 In an exemplary embodiment, the electronic payment is accompanied by an electronic remittance advice and the payment is applied electronically. In another embodiment, a paper based payment and remittance advice is received, and is applied directly into transaction management and financial services system 100.

In an exemplary embodiment, the information displayed on the web pages for both the payee and the payor are automatically updated to reflect payment information, including images. Advantageously, displaying the information in an easy to use format allows the parties involved in the transaction to have current and matching records for all transactions.

In a step 935, transaction management and financial services system 100 stores the transaction in an electronic storage device. All information relevant to the transaction enhances participant profiles. For example, the profile would include whether the payor paid on time, paid in full, disputed the invoice, etc. The profile would also include whether the payee shipped the goods on time, shipped a complete order, etc. Advantageously, by storing this information, a customer profile can be used to analyze the payee or payor for future transactions or financing decisions, or to customize marketing campaigns, content, screen display, etc.

If the payment made is determined to be a full payment of an invoice in a step 937, a step 940 is performed in which the invoice is closed and the invoice summary is updated to reflect the invoice as paid in full. If the payment is not a full payment, step 920 is repeated in which the payor is contacted to identify the reason for the short payment. Based on the feedback from the payor, either step 945, dispute resolution, or step 950, alternative collection method, are initiated. In one embodiment, the remittance advice received in step 925 may identify the reason for the short payment, and either step 945, dispute resolution, or step 950, alternative collection method, are initiated. If the payor does not pay the account in step 922, after being contacted in step 920, and initiating dispute resolution step 945, transaction management and financial services system 100 and the payee determine if necessary to initiate alternative collection method 950. In an exemplary embodiment, all steps in flow diagram 900 can be performed via the Internet. Alternatively, phone, fax, mail and other conventional methods of communication may also be utilized.

FIGURE 11 illustrates a flow diagram 1100 of an exemplary process of providing trade credit recommendations and guarantees over the Internet through transaction management and financial services system 100. In a step 1110, a seller provides its standard selling terms and credit history, including credit guidelines and goals to transaction management and financial services system 100. After step 1110, a step 1120 is performed in which a buyer selects goods to purchase from seller. In an exemplary embodiment, the buyer selects goods via web pages on the Internet. After step 1120, a step 1125 is performed in which system 100 determines whether a recommendation or guarantee has been required by the Seller. If a recommendation has been required by Seller, a step 1130 is performed in which system 100 evaluates the buyer and provides a recommendation of trade credit for the buyer, based on the custom credit engine of transaction management and financial services system 100, which incorporates the credit goals and guidelines established by the seller. Alternatively, the Seller may not specify credit guidelines and goals, but rather the Seller may rely entirely on system 100 for its credit strategy.

Alternatively, if a guarantee is required by Seller, a step 1140 is performed in which transaction management and financial services system 100 can guarantee the buyer's ability to pay its obligation to seller, described further with reference to FIGURES 8C-D. In an exemplary embodiment, digital certificate, PKI or other verification technology is used to confirm the identity of the buyer.

After step 1130 or 1140, a step 1160 is performed in which the buyer receives the purchased goods or services. After step 1160, a step 1170 is performed in which the buyer pays transaction management and financial services system 100 and transaction management and financial services system 100 pays the seller. In an exemplary embodiment, payment by the buyer to transaction management and financial services system 100 and payment by transaction management and financial services system 100 to the seller is done electronically. In an alternative embodiment, either the payment of the buyer to transaction management and

financial services system 100 or the payment of transaction management and financial services system 100 to seller is done in a non-electronic fashion.

The exemplary method described with reference to FIGURE 11 has the advantage of automating and making instantaneous the process of obtaining trade credit recommendations and guarantees. It also has the advantage of providing automated trade credit analysis in a user-friendly format over the Internet. The credit recommendation can be instantaneously generated. Credit analysis is handled entirely by transaction management and financial services system 100.

Conventionally, a buyer seeking a trade credit approval goes through a time consuming process to obtain approval. A buyer in the conventional process has to submit credit information to the seller, and wait for a response from the seller. Responses can often take hours and days. The seller also faces delays and risks in the conventional process. Sellers, who often have little credit experience, are forced to receive and analyze credit information from buyers. In addition, given the limited amount of information which is available to many sellers, references are often checked. The process of requesting and reviewing trade references can often take several days. In addition, it often lacks value, as buyers only provide their best references. The time delay and limited credit skills of many sellers creates inefficiency, friction and risk in the marketplace which is eroded by the introduction of transaction management and financial services system 100.

Advantageously, in transaction management and financial services system 100, the credit recommendation or guarantee is generated, in part, based on stored customer data including both external information and an internal transaction history. This information used in transaction management and financial services system 100's credit engine to determine if buyers qualify for trade credit. As the recommendation or guarantee can be instantaneously communicated to the buyer/seller via the Internet, liquidity in the marketplace improves. In addition, risk is reduced as transaction management and financial services system 100 brings

expert knowledge and leadership, and possibly credit guarantees, to trade credit analysis.

FIGURE 12 illustrates a flow diagram 1200 of an exemplary process for customizing the appearance and content of a web page using transaction management and financial services system 100. In a step 1210, system 1200 receives a signal from a remote processing device. In an exemplary embodiment, the signal can come from the personal computer or mobile phone of a buyer, seller or other participant in transaction management and financial services system 100. After step 1210, a step 1220 is performed in which transaction management and financial services system 100 determines the identity of a buyer and the method of access to transaction management and financial services system 100.

After step 1220, a step 1230 is performed in which transaction management and financial services system 100 initiates personalization services in conjunction with profiling module 303, described with reference to FIGURE 3. In an exemplary embodiment, step 1230 will retrieve a profile of the identified buyer from profiling module 303. The profile can either be specific to the company participant, or an individual user within the company. The profile, among other identifiers, includes information concerning any relationships in any way linked to the participant. In one embodiment, a linked relationship includes the referring party that referred the participant. In an exemplary embodiment, the appearance and content is customized based on the retrieved profile, and is displayed via a web page. In another embodiment, the content displayed on a remote processing device is customized based on the identification of the type of remote processing device which is accessing transaction management and financial services system 100. Advantageously, transaction management and financial services system 100 delivers real time customized and targeted content, advertisements and marketing campaigns to all participants in transaction management and financial services system 100 based on the profile established for each participant.

FIGURE 13A illustrates a flow diagram 1300 of an exemplary process of participant access to transaction management and financial services system 100. In a step 1310, a new participant accesses system 100 via a website using a web browser. After step 1310, in one embodiment, a step 1320 is performed in which the new participant clicks on a link to a referring party of system 100. A referring party can be bank, an independent lender, an insurance company, a leasing company, a governmental group (e.g, local, state, federal, international), a business to business web portal or e-commerce marketplace or any party that may benefit from the transaction management and financial services provided by system 100, or that has entered into a marketing relationship with transaction management and financial services system 100. In another embodiment, the new participant does not click on a link. In an exemplary embodiment, such a link is hypermedia text or images.

After step 1320, a step 1330 is performed in which the web browser requests an HTML page with a uniform resource locator (URL) identifying transaction management and financial services system 100 and the selected referring party. After step 1330, a step 1340 is performed in which transaction management and financial services system 100 receives the browser request, retrieves an HTML page customized for the identified transaction management and financial services system 100 and referring party based on the received signal. After step 1340, a step 1350 is performed in which transaction management and financial services system 100 transmits customized pages to the participant's remote access device. After step 1350, a step 1360 is performed in which user's remote access device receives and displays customized pages. In an exemplary embodiment, a new participant can access transaction management and financial services system 100 using any remote access device. In another embodiment, transaction management and financial services system 100 identifies the type of device being used to access transaction management and financial services system 100, or the screen display capability of the remote access device, and transaction management and financial services system 100 modifies the type and format of information transmitted to the remote device to

enable universal access to transaction management and financial services system 100.

FIGURE 13B illustrates a flow diagram 1370 of an exemplary process of participant access to transaction management and financial services system 100. In a step 1371, a new participant accesses system 100 via a link on the web site of any party (linking party) seeking to offer any one of the service offerings of transaction management and financial services provided by system 100, on a private label basis, or otherwise. After step 1371, in one embodiment, a step 1372 is performed in which the new participant clicks on a link to a referring party of system 100. Alternatively, the linking party may choose to offer the products and services of system 100 without offering links to referring parties. In this embodiment, the linking party is the referring party. A referring party can be bank, an independent lender, an insurance company, a leasing company, a governmental group (e.g, local, state, federal, international), a business to business web portal or e-commerce marketplace or any party that may benefit from the transaction management and financial services provided by system 100, or that has entered into a marketing relationship with transaction management and financial services system 100. In an exemplary embodiment, such a link is hypermedia text or images.

In an exemplary embodiment, the referring party can be a party which directly provides similar products and services similar to those provided by system 100. Advantageously, a user accessing system 100 via a linking party has access to a plurality of providers of commercial transaction management services, trade credit analysis services, credit guaranteeing services, and financing services. This access to a plurality of providers of these services creates competition in the marketplace, increases scale, improves marketplace efficiency, reduces transaction costs, and allows the linking party to maintain a service affiliation with users.

After step 1372, a step 1373 is performed in which the web browser requests an HTML page with a uniform resource locator (URL) identifying transaction management and financial services system 100 and the selected referring

party. After step 1373, a step 1374 is performed in which transaction management and financial services system 100 receives the browser request, retrieves an HTML page customized for the identified transaction management and financial services system 100, the referring party and the linking party, based on the received signal.

- 5 After step 1374, a step 1375 is performed in which transaction management and financial services system 100 transmits customized pages to the participant's remote access device. After step 1375, a step 1376 is performed in which user's remote access device receives and displays customized pages. In an exemplary embodiment, a new participant can access transaction management and financial
- 10 services system 100 using any remote access device. In another embodiment, transaction management and financial services system 100 identifies the type of device being used to access transaction management and financial services system 100, or the screen display capability of the remote access device, and transaction management and financial services system 100 modifies the type and format of
- 15 information transmitted to the remote device to enable universal access to transaction management and financial services system 100.

- Advantageously, the method described with reference to FIGURE 13B allows the linking party to offer the product and service offerings of transaction management and financial services system 100, while maintaining a customer
- 20 service affiliation with its participants, by offering its participants a choice of firms, in step 1372, offering the products and service offered by transaction management and financial services system 100. In one embodiment, all referring parties utilize transaction management and financial services system 100 on a private label basis. In another embodiment, the referring parties offer the services in affiliation with
- 25 transaction management and financial services system 100. In yet another embodiment, the referring parties include firms that offer their own proprietary products and service offerings, these offerings being similar in nature and competing with any one of the product and service offerings of transaction management and financial services system 100. In an exemplary embodiment, transaction
- 30 management and financial services system 100 acts as an aggregator of financing

services, trade credit underwriting and analysis services, credit guaranty services and commercial transaction management services. Commercial transaction management can include any step involved in the billing, payment, settlement, reconciliation, modification, maintenance and conclusion of commercial

- 5 transactions. Aggregation can include the identification of providers of financing, trade credit underwriting and analysis, commercial transaction management, credit guarantees, and the delivery of access to these providers through an accessible medium, such as the Internet.

- Advantageously, this allows e-commerce marketplaces to offer
- 10 trading participants, including buyers and sellers, a choice of providers of services which are critical to any one of; the facilitation of commercial transactions (trade credit analysis and guarantees), the management of commercial transactions, the maintenance of commercial transactions, the modification of commercial transactions, and the conclusion of commercial transactions, while maintaining an
- 15 affiliation with trading participants. Maintaining an affiliation with trading participants, as opposed to third party vendors - which may help facilitate trade - is important to the acceptance of most e-commerce marketplaces, especially, where the vendors that help facilitate trade are offering services which are transactional in nature, or where subjective vendor analysis criteria are used in vendor selection,
- 20 such as; the geographic location off the vendor, the perceived service quality of the vendor, the perceived stability of the vendor, or whether the participant has an existing relationship with the vendor. In addition, the above described aggregation promotes competition, which in turn drives down costs, may increase efficiency and ultimately, further reduce transaction costs. The outcomes of this competition are
- 25 better service, lower costs and improved liquidity, all, deepening value to e-commerce marketplace participants.

FIGURE 13C illustrates a flow diagram 1380 of an exemplary process of participant access to transaction management and financial services system 100. In a step 1390, a new participant accesses system 100 via a referring

party's web site. In an exemplary embodiment, such a link is hypermedia text of images. After step 1390, a step 1391 is performed in which the web browser requests an HTML page with a uniform resource locator (URL) identifying transaction management and financial services system 100 and the referring party.

- 5 After step 1391, a step 1392 is performed in which transaction management and financial services system 100 receives the browser request, retrieves an HTML page customized for the identified transaction management and financial services system 100 and referring party based on the received signal. After step 1392, a step 1393 is performed in which transaction management and financial services system 100
- 10 transmits customized pages to the participant's remote access device. After step 1393, a step 1394 is performed in which user's remote access device receives and displays customized pages. In an exemplary embodiment, a new participant can access transaction management and financial services system 100 using any remote access device. In another embodiment, transaction management and financial
- 15 services system 100 will identify the type of device being used to access transaction management and financial services system 100, or the screen display capability of the remote access device, and transaction management and financial services system 100 will modify the type and format of information transmitted to the remote device to enable universal access to transaction management and financial services system
- 20 100.

- Advantageously, the processes described with reference to FIGURES 13A-13C allow the web page to be customized to feature the brand of the referring party or the linking party. This customization allows the referring party and/or the linking party to maintain brand exposure with referred parties and parties
- 25 targeted/identified by transaction management and financial services system 100 independent of linking and referring parties. In an exemplary embodiment, the web page includes only the source indication of the referring party or the linking party. In another exemplary embodiment, the web page includes an indication of the source of transaction management and financial services system 100 in addition to the
 - 30 referring party, or the linking party. In another embodiment, multiple partners are

able to offer the operational capabilities of transaction management and financial services system 100.

This multi-partner marketplace model, described further with reference to FIGURE 2, begets additional embodiments. In another embodiment, transaction management and financial services system 100 partners with electronic portals seeking to offer transaction management and financial services system 100's operational solutions to their participants. Electronic portals are any one of B2B e-commerce marketplaces, destinations on the Web that deliver content through web pages or any other Web destination that delivers content. In this embodiment, the portals' participants have a plurality of choice of service providers to choose from that offer the operational functionality of transaction management and financial services system 100. Advantageously, the portal maintains an affiliation with its participants, rather than a single service provider, while transaction management and financial services system 100 partners gain the benefit of an additional distribution channel.

FIGURE 13D is a flow diagram 1300D illustrating operational aspects of an exemplary embodiment of transaction management and financial services system 100 in partnership with electronic portals. In one embodiment, business entities have established electronic portals 1306, 1307, and 1308. These electronic portals have business customers 1301, 1302, 1303, 1304, and 1305. In one embodiment, electronic portals 1306, 1307, and 1308 seek to provide commercial transaction management services to customers 1301, 1302, 1303, 1304, and 1305. Not wanting to invest in the development of the commercial transaction management services, electronic portals 1306, 1307, and 1308 partner with transaction management and financial services system 100, to provide the commercial transaction management services. In one embodiment customers 1301, 1302, 1303, 1304, and 1305, of electronic portals 1306, 1307, and 1308, seeking the commercial transaction management services provided by transaction management and financial services system 100 click on a link to transaction

management and financial services system 100 on the electronic portals' web site.

In an exemplary embodiment, such a link is hypermedia text of images. In another embodiment, a new participant can access transaction management and financial

services system 100 using any remote access device. In another embodiment,

5 transaction management and financial services system 100 identifies the type of device being used to access transaction management and financial services system 100, or the screen display capability of the remote access device, and transaction management and financial services system 100 modifies the type and format of information transmitted to the remote device to enable universal access to

10 transaction management and financial services system 100. In another embodiment, the customized pages transmitted to customers 1301, 1302, 1303, 1304, and 1305 include links to marketplace 201 and 203 (described with reference to FIGURE 2), associated with financial institution 231 and 232 (described with reference to FIGURE 2).

15 In an exemplary embodiment, customers 1301, 1302, 1303, 1304, and 1305 may choose to use the commercial transaction management services of marketplace 201 or 203, associated with financial institution 231 and 232, described with reference to FIGURE 2. In another embodiment, marketplace 201 and 203 would also be affiliated with electronic portal 1306, 1307, or 1308. In yet another
20 embodiment, the only affiliation is with electronic portal 1306, 1307, or 1308.

Advantageously, by offering customer 1301, 1302, 1303, 1304, and 1305 a choice of operational service providers, electronic portals 1306, 1307, and 1308 foster the perception of affiliation with customers 1301, 1302, 1303, 1304, and 1305. In addition, partners of transaction management and financial services
25 system 100, in this case financial institutions 231, 232 gain access and brand exposure to new prospects. Further, commercial transaction management services of transaction management and financial services system 100 provide the additional benefit of delivering access and brand exposure to buying communities 1321, 1322, 1323, 1324, and 1325 of businesses 1301, 1302, 1303, 1304, and 1305.

Advantageously, buying communities 1321, 1322, 1323, 1324, and 1325 are likely to include many new prospects with whom financial institution 231, 232 and electronic portal 1306, 1307, and 1308 may not have otherwise had access.

Advantageously, the customization and profiling which are part of transaction

5 management and financial services system 100 allow the delivery of highly customized and targeted information. As such, the services and tools allow branding and targeted marketing to enhance prospect penetration, as discussed above. Another advantage is that the relationship between system 100 and buying communities 1321-1325 can result in relationships with buying communities 1311-
10 1315 further deepening brand access, exposure, and market penetration for electronic portals 1306-1308 and/or financial institution 231 or 232.

FIGURE 14 illustrates a flow diagram 1400 of a front-end system for transaction management and financial services system 100. The front-end system receives and translates into usable form all applications for trade credit or financing,
15 invoices, purchase orders or other commercial transaction information or ancillary commercial transaction information. In an exemplary embodiment, an application for financing and trade credit approval can arrive from participant 1401, via e-mail through web portal 1402, a fax 1403, a telephone 1404 or from a hard copy 1405. If the application is forwarded to transaction management and financial services
20 system 100 in an electronic format in a step 1410, it is forwarded automatically to a web portal in a step 1450. If the application is received by fax in a step 1420, the fax is converted to electronic format in a step 1425. Following conversion, a step 1427 is performed in which the data is checked to see if the conversion was successful. If the conversion is satisfactory, the application which is now in
25 electronic format is then forwarded to web portal in step 1450. If the conversion is not satisfactory, then the application is forwarded to a step 1435 wherein it is manually entered into system 100. If the application is received by telephone in a step 1430 or by mail in a step 1440, the application is forwarded to step 1435 in which it is manually entered into system 100. This electronic document is then
30 forwarded to the web portal in step 1450.

FIGURE 15 illustrates a flow diagram 1500 of an exemplary process for front end processing of the application received in the steps described with reference to FIGURE 14. Front end processing flow chart 1500 receives information from web portal (FIGURE 14). An example of the information transferred in an application can include financial statements, prior completed applications, trade references, or any other information on the applicant. In a step 1505, data received from web portal (FIGURE 14) is entered into a front-end platform. Next, in a step 1510, the application request is flagged as being received directly; without a referral; from a referring party seeking continued brand exposure to referrals; or from a referring party seeking to offer services on a private label basis from transaction management and financial services system 100. Following step 1510, a step 1515 is performed in which the application received is flagged as either an application for financing, an application for trade credit, or any other type of application.

Next, in a step 1520, the company making the request is analyzed to determine whether the company has already been analyzed by or participated in transaction management and financial services system 100. In a step 1525, a determination is made as to whether this is an existing or prior client, a client being a participant utilizing financing operations of transaction management and financial services system 100. If the applicant is not a prior client, a step 1530 is performed where it is determined if the applicant is an existing or prior customer (buyer). If the applicant is not an existing or prior customer, a step 1535 is performed in which it is determined whether the applicant is an existing or prior trade credit account.

If the customer making the request is not an existing or prior trade credit account, a step 1540 is performed. In step 1540, an identification verification and fraud screen is performed based on the information in the request and an analysis of the company. In a step 1545, the company either passes or fails the identification and fraud screen. If the company fails the screen, a determination is made in a step 1550 whether this screening is the first or second attempt. If this

screening is the first attempt, a step 1555 is performed where the customer is contacted for additional information. Following the submission of additional information, the identification verification and fraud screen at step 1540 is repeated. If step 1550 shows that the identification verification and fraud screen in step 1540 was failed in a second attempt, a step 1560 is performed in which the customer is rejected or declined. If the identification verification and fraud screen in step 1540 is passed in step 1545, a step 1580 is performed where the system forwards the application through the appropriate process, based on the type of application. In one embodiment, the process is identical through this point, but will differ from this point on, based on the type of application received (trade credit request, financing request, etc.). In another embodiment, if the request is a request for factoring services, the request is forwarded to steps illustrated in a flowchart 1600 described below with reference to FIGURE 16A. If the request is a request for trade credit, the request is forwarded to steps illustrated in a flowchart 1800 described with reference to FIGURE 18.

If any of the determinations made in steps 1525, 1530 or 1535 are affirmative, such that the system already has information on the customer, a step 1565 is performed in which transaction management and financial services system 100 obtains historical data from the electronic storage facility, including existing records for applicant. Next, a step 1570 is performed in which the records obtained in step 1565 are attached to the application. Following this attachment, a step 1575 is performed in which the obtained records and application are reviewed for problem flags. In one embodiment, problem flags are potential problem areas identified by transaction management and financial services system 100 with existing participants. In another embodiment, problem flags may exist for new applicants based on industry, company size or other identifiers delineated by transaction management and financial services system 100. Following this review, a step 1580 is performed where the system forwards the application through the appropriate process, based on the type of application.

In one embodiment, if the request is a request for factoring services, the request is forwarded to flowchart 1600 described with reference to FIGURE 16A. If the request is a request for trade credit, the request is forwarded to flowchart 1800 described below with reference to FIGURE 18. Advantageously, additional information can be automatically obtained in step 1565, thereby eliminating a large time burden associated with manual application processes. In another embodiment, the applicant is a financing seeking party, referred by a referring party, and the application forwarded is, in whole or in part, the application completed by applicant, for referring party. Advantageously, applicant is not required to complete another application.

FIGURE 16A illustrates a flow diagram 1600 of exemplary steps in a factor underwriting process in transaction management and financial services system 100. A request containing attached records and problem flags is received from step 1580 in flowchart 1500 (FIGURE 15). Upon receipt of the request, a step 1605 is performed in which the problem flags are reviewed in a step 1610 and compared to business rules to determine whether or not the problem flags are a “deal killer”. If the problem flags are a “deal killer”, step 611, alternative screening process takes place, in which an alternative solution is reviewed (described with reference to FIGURE 16B).

FIGURES 16B and C illustrate a flow diagram 1698 and 1699 of exemplary steps in exemplary alternative screening processes for finding funding sources. In FIGURE 16B, step 1680, transaction management and financial services system 100 has already determined that the application for financing does not meet the credit profile of transaction management and financial services system 100. In this step, transaction management and financial services system 100 matches the application data to the underwriting guidelines of a plurality of alternative financing providers. In a step 1391, system 100 determines whether one or more matches exist. After step 1391, steps 1692 and 1693 are performed where system 100 notifies the alternative financing party and the financing seeking party of

the match. The alternative financing party (AFP) and the financing seeking party (FSP) then negotiate terms of financing and conclude their financing arrangement in step 1694. In one embodiment, the approval is provided on a private label basis, reflecting the brand of transaction management and financial services system 100 and the referring party. In another embodiment, the financing is managed through transaction management and financial services system 100, but is provided by the alternative financing provider in affiliation with transaction management and financial services system 100.

In FIGURE 16C, a step 1612C is performed in which transaction management and financial services system 100 transmits the application information to a plurality of alternative financing providers (AFP) for review and analysis. In a step 1613C, the alternative financing providers receive and process the application for approval. In a step 1614C, transaction management and financial services system 100 receives the bids for financing and transmits the bids to the financing seeking party. In a step 1615C, the financing seeking party (FSP) selects the bid it would like to accept. In a step 1616C, the acceptance is communicated to the alternative financing provider, and in a step 1617C, the financing seeking party and the alternative financing provider conclude their transaction. Advantageously, by offering a brokering engine for transactions which are not suitable for system credit exposure, transaction management and financial services system 100 can further maximize its value to its referral sources.

Referring now again to FIGURE 16A, after step 1611 is performed, if an alternative is found, step 1750, with reference to FIGURE 17 is performed. If no alternative solution can be found, a step 1613 is performed in which the applicant moves through the reject or decline process 1613. If the problem flags are not a deal killer, a step 1615 is performed where a pricing model is run, where sufficient information exists to feed the pricing model, to determine the viability of the applicant based on profitability and cost to the applicant. If the pricing is determined not to be viable, applicant is subjected to reject or decline process 1613.

If the pricing is deemed viable, then the applicant is forwarded through different processes, based on whether it is an existing financing participant. An existing financing participant is a participant in transaction management and financial services system 100 that is obtaining financing from or through transaction management and financial services system 100. If the applicant is an existing participant, a step 1635 is performed in which the account executive is notified of the existence of the request. This may occur when an existing participant, utilizing financing operations of transaction management and financial services system 100 seeks financing from a third party. If transaction management and financial services system 100 has a relationship with the third party, and the third party is offering the services of transaction management and financial services system 100 on a private label basis, transaction management and financial services system 100 can be requested to provide services to a participant already receiving those services from transaction management and financial services system 100. Following notification, a step 1640 is performed in which the account executive contacts the customer. If appropriate, the account executive generates an offer based on the new circumstances. Simultaneously, applicant may receive an offer utilizing the brand of the referring party.

If the client is not an existing client, the application is examined in a step 1650 to determine if it is complete. If it is not complete, a step 1655 is performed in which any issues are logged into the system. Following step 1655, a determination is made in a step 1660 whether complete financial information for that applicant is already on file. If transaction management and financial services system 100 does not have complete financial information for the applicant, the screening agent contacts the applicant in a step 1665. Following the contact, the applicant may submit complete financial information in a step 1670. If the application is determined to be complete in step 1650 or the financial information is determined to be on file in step 1660, a determination is made in a step 1675 whether the financial statements have been “spread”. Spreading the financial information involves transferring discrete information into an electronic format and organizing it into

useful categories. If the financial statements have not been “spread” or the statements were obtained from the customer in step 1670, the financial information is “spread” in a step 1680.

FIGURE 17 illustrates a flow diagram 1700 of exemplary steps in a factor underwriting process in transaction management and financial services system 100. Flow diagram 1700 receives financial statements that have been spread into usable form from step 1680 or step 1675 described with reference to FIGURE 16A.

Following the receipt of the financial information, the information is entered into an expert system in a step 1705. If the applicant is not an existing participant, a step 1715 is performed in which transaction management and financial services system 100 requests credit reports for the applicant and makes UCC searches for any commercial filing related to that applicant. If the applicant is determined to be an existing participant in step 1710, a check is made in a step 1720 to determine whether the information on file is current. If the information is not current, step 1715 is performed for the existing participant to update the information.

System 100 then runs a rule-based model in a step 1725 using the information either obtained in step 1715 or that was already on file for the existing applicant. The purpose of this rule-based model is to approve the applicant for financing. The analysis is examined in a step 1735. If the applicant is determined not to be acceptable in either step 1720 or 1735, a step 1740 is performed in which the issues are logged into system 100, and forwarded to step 1745, for further review.

If the determination in step 1745 is that the applicant does not need to be reviewed, based on the existing customer log or external issues, a step 1750 is performed in which the request is either approved or declined based on the decision made by the expert system in step 1725 and 1735. If the review determines the request to be desirable, but further review is necessary, a step 1755 is performed in

which the customer is contacted to gather additional information. After the customer is contacted, a step 1760 is performed in which additional information is gathered, entered into the system, and step 1725 is repeated. If additional information is not gathered, step 1750 is performed. Following step 1750, a step 1775 is performed in which the transaction is closed. In one embodiment, step 1775 includes a credit extension procedure, such as, the procedure described with reference to FIGURE 7C and step 750.

FIGURE 18 illustrates a flow diagram 1800 of exemplary steps in a trade credit underwriting process in transaction management and financial services system 100. In an exemplary embodiment, the trade credit underwriting process receives a request containing the body of the request and attached historical data records and problem flags from step 1580 (described with reference to FIGURE 15).

Upon receipt of the request, a step 1805 is performed in which the attached problem flags are examined and compared to the business rules for system 100. The comparison is examined in a step 1810 to determine if it is a “deal killer”, such that it would be uneconomical to proceed. If the examination and comparison reveal a problem that is a “deal killer”, a rejection process is performed in step 1560. If the problem is not a “deal killer”, an examination is made in a step 1815 to determine if the application in the body of the request is complete. If the application in the body of the request is not complete, a step 1820 is performed in which the customer is notified and allowed to update the application. Following step 1820, a step 1825 is performed in which the status of the request is determined. If the application attached to the request is complete, then a determination is made in a step 1830 whether the applicant is an existing participants.

If the applicant is not an existing participant, a step 1835 is performed in which system 100 obtains credit reports on the applicant. If the applicant is an existing participant, a determination is made in a step 1840 whether

the information on file is current. If the information is not current, then step 1835 is performed and new credit reports are obtained.

FIGURE 19 illustrates a flow diagram 1900 of exemplary steps in a trade credit underwriting process in transaction management and financial services system 100. Flow diagram 1900 receives an application and information regarding the application from step 1835 or step 1840 (described with reference to FIGURE 18).

Upon receipt of the information on file or the information in the credit reports, a step 1905 is performed in which a determination is made in a step 1910 whether there is sufficient information to make a decision. If there is not sufficient information, a step 1915 is performed in which either the applicant is contacted for additional financial statements or the financial statements on file are examined. If there is sufficient information on file to make a decision or if sufficient information is obtained, a step 1920 is performed in which a credit decision is generated.

Following the generation of the credit decision, a determination is made in a step 1925 whether a manual review is required. If a manual review is required in step 1925, a step 1930 is performed in which the credit decision generated in step 1920 is validated. An accounts manager makes a determination in a step 1935 whether to concur with the credit decision. If the accounts manager does not concur with the credit decision, a step 1940 is performed in which a required approval for override is obtained. If a manual review is not required or the accounts manager concurs or the required approval is obtained in step 1940, a step 1945 is performed in which summary document is generated. This document is then forwarded to the applicant in a step 1950.

Following the forwarding of the document to the applicant, the applicant has the option of requesting other services in a step 1955. If the applicant does not request additional services, a step 1960 is performed in which a bill is sent

for services rendered. If the client does request additional services, a step 1965 is performed in which the customer is transferred to the appropriate process for the requested service in a step 1970.

Advantageously, the processes described with reference to

- 5 FIGURES 14-19 provide for a flexible system handled by expert sub-systems and by the use of documents in electronic format. System 100 can deliver the majority of its services real time, meaning there is virtually no delay between a request for a service and the product of that service. Conventionally, certain operations, such as an analysis of a credit history, take a number of people conducting a number of
- 10 inquiries. Delays are inherent to such conventional systems.

- FIGURE 20 illustrates an exemplary display screen 2000 of a web page for transaction management and financial services system 100. Screen 2000 is displayed upon access of the web site from some source (e.g., a business to business web site). In an exemplary embodiment, the user has chosen Chase as a financial
- 15 institution. Screen 2000 includes two hypermedia links labeled "Log-on." A hypermedia link 2010 provides access to a log-on procedure for buyers in transaction management and financial service system 100 and a hypermedia link 2020 provides access for sellers.

- Exemplary display screen 2000 may display a source-indicating logo,
- 20 a font, a layout and/or a color scheme designated by an associated financial institution. In an exemplary embodiment, the logo and links to services for transaction management and financial service 100 are not present on display screen 2000 and the web page content is entirely designated by the financial institution. In another embodiment, the logo and links to services for system 100 are prominently
- 25 displayed. Advantageously, the financial institution has significant design input allowing the financial institution to maximize brand recognition, offer additional services, and provide targeted marketing to the participants.

FIGURE 20 also illustrates a financial institution specific tool bar 2030. Tool bar 2030 contains at least one hypermedia link 2040 to products or services from an associated financial institution. Tool bar 2030 may also contain images or advertisements from the associated financial institution. The content of the tool bar may also be modified to reflect the interests of the viewer currently viewing the display.

FIGURE 21 illustrates an exemplary display screen 2100 of a web page for transaction management and financial services system 100. Screen 2100 is displayed upon activation of hypermedia link 2010 labeled “Log-on” and described with reference to FIGURE 20. Screen 2100 includes an entry field 2110 labeled “Customer Number” and an entry field 2120 labeled “PIN”. Screen 2100 additionally includes hypermedia links 2130, 2140, 2150, 2160, and 2170. Hypermedia link 2130 labeled “Sign On” provides access to additional website screens of system 100. Hypermedia link 2140 labeled “Apply Now” provides access to a web page allowing the user to obtain a customer number and PIN (personal identification number) and thereafter access additional website screens. Hypermedia link 2150 labeled “Forgot Your Pin?” provides access to a web page allowing access to website screens without properly filling the PIN field. Hypermedia link 2160 labeled “Browser Test” provides access to a method for testing the compatibility between the browser viewing the web page and the web pages for transaction management and financial services system 100. Hypermedia link 2170 labeled “Helpful Hints” provides access to a web page containing information about using system 100.

FIGURE 22 illustrates an exemplary display screen 2200 of a web page for transaction management and financial services system 100. Display screen 2200 is displayed upon completion of the log-in procedure described with reference to FIGURE 21. Display screen 2200 illustrates an account statement for an example user. In one embodiment, the account statement features columns containing pay selection boxes, dispute selection boxes, tracking fields, purchase order numbers,

seller identities, invoice numbers, invoice dates, due dates, terms of the account, and the balance of the account. The entries in the account statement can be sorted according to the entries in any of the columns. For example, the column labeled “Invoice Number” contains a list of invoice numbers 2210 which are hypermedia
 5 links to web pages containing an electronic copy of the invoice for that account. The column labeled “Tracking” contains a list of numbers 2220 which are hypermedia links to a web page displaying tracking information for that account. At the bottom of the display screen is a button 2240 labeled “Dispute” and a button 2230 labeled “Pay”.

10 In one embodiment, system 100 acts as a bill aggregator for a Buyer and display screen 2200 illustrates an example of the display that a Buyer can access to manage bills from a plurality of vendors. Bill information may be received directly from the vendor to system 100 either in electronic or non-electronic format. Alternatively, bills may be forwarded to system 100 from the Buyer.

15 Transaction management and financial services system 100 creates profiles for each customer and client that interacts with system 100. System 100 also creates a profile for each user associated with the marketplace. The profile is based in part on unique information gathered by system 100 and in part on external information. The information stored can include the size of the business, number of
 20 years in operation, the industry of the business, the nature of the business including whether it manufactures, wholesales, distributes or retails the product it sells, payment records, purchase records, banking records, credit record, and a summary of any transactions conducted in transaction management and financial services system 100.

25 FIGURE 23 illustrates an exemplary display screen 2300 of a web page for transaction management and financial services system 100. Display screen 2300 is displayed when a person viewing the web page clicks on hypermedia link 2040 in financial institution specific tool bar 2030 (described with reference to FIGURE 20). Display screen 2310 is displayed in a new window and includes a

web page for a specific financial institution and information corresponding to the service or product listed in the hypermedia link selected from tool bar 2030.

FIGURE 24 illustrates an exemplary display screen 2400 of a web page for transaction management and financial services system 100. Display screen 2400 is displayed when a person viewing display screen 2200 (FIGURE 22) clicks on a hypermedia link in a list 2210 to display an electronic copy of an invoice. The opened window 2410 displays the electronic copy of the invoice 2420.

Advantageously, all of the traditionally required paper copies of required documents can be accessed in a similar manner. In conventional systems, one has to place a call to the records division, have them retrieve the paper document from a file, and have them fax the document to the requesting party.

FIGURE 25 illustrates an exemplary display screen 2500 of a web page for transaction management and financial services system 100. Display screen 2500 is displayed when a person viewing display screen 2200 (FIGURE 22) clicks on a hypermedia link in list 2220 to display tracking information for an account. System 100 interfaces with major shipping carriers that offer online tracking, by accessing their web site, filling the appropriate fields, and retrieving tracking information. The opened window 2510 displays tracking information from any major shipping carrier offering on-line tracking of shipments. The person viewing display screen 2510 can access any of the functionality in the web site of the major shipping carrier. The contents of window 2510 can be stored or printed as proof of delivery. Advantageously, this process makes it easier to obtain this information and also facilitates the process of providing proof of delivery. In conventional systems, an accounts payable has to communicate with a person in shipping, wait for that person to retrieve a bill of lading, receive the bill of lading, contact the shipping company and finally receive tracking information.

FIGURE 26 illustrates an exemplary display screen 2600 of a web page for transaction management and financial services 100. Display screen 2600 is accessed from display screen 2200 showing an account summary. In an exemplary

embodiment, display screen 2600 is displayed when the person viewing display screen 2200 checks a box in the column labeled “Pay” and then clicks on hypermedia link 2230 labeled “Pay.” Display screen 2600 lists the accounts associated with boxes selected prior to clicking on hypermedia link 2230 and the associated tracking, purchase order, seller, invoice number, invoice date, due date, terms and balance information for those accounts. Display screen 2600 also includes an accounts field 2610 allowing the user to select an account from all of the banking or credit accounts that are logged with system 100 for the current user. The user can select which banking or credit account is to be used to pay the selected invoices. The user can also activate a hypermedia link 2620 labeled “Check Account” associated with each banking or credit account. Hypermedia link 2620 allows the user to check the current balance and available funds for that account. Activating hypermedia link 2620 opens a web page displaying information about the banking or credit account. In an exemplary embodiment, this web page is hosted and maintained by a financial institution corresponding to the account. In another embodiment, the web page is hosted and maintained by a centralized accounts managing provider.

Advantageously, display screen 2600 allows a user to see what accounts have been selected for payment and the total amount due for those accounts. The user can then check the balances or move funds within all of the banking and credit accounts listed with system 100. As such, the user can manage all their accounts and payments from one easy location.

Another advantage offered by transaction management and financial services system 100 is that on-line bill payment is made more convenient. In conventional systems, users have to manually enter payment information for all vendors.

FIGURE 27 illustrates an exemplary display screen 2700 of a web page for transaction management and financial services system 100. Display screen 2700 is a version of display screen 2200 showing an account statement of a buyer.

Screen 2700 illustrates the dispute resolution feature in system 100 that is selectively engaged when a person viewing display screen 2200 checks a box in the column labeled “Dispute”. The amount due for that account is subtracted from a numerical field 2710 labeled “Total Due” and added to a numerical field 2720 labeled “Total Disputed”. The user can then click on hypermedia link 2240 labeled “Dispute” to enter the dispute.

FIGURE 28 illustrates an exemplary display screen 2800 of a web page for transaction management and financial services system 100. Display screen 2800 is accessed from display screen 2700 described with reference to FIGURE 27.

Display screen 2800 further illustrates the dispute resolution feature in system 100 in which the selected account to be disputed is displayed. Screen 2800 features information about the account as well as a column labeled “Dispute.” The value in the “Dispute” column is originally undefined. When the user click on a hypermedia link 2810 labeled “Process Disputes,” a display window 2820 is displayed.

Display window 2820 includes a selectable field 2821 labeled “Reason for Dispute:”, and a text entry field 2822 labeled “Explanation:”. In an exemplary embodiment, the user has the ability to select a reason for the dispute and then enter an explanation that will be communicated to the seller. After a selection is made in reason for dispute field 2821, the value in the “Dispute” column is updated to reflect this selection.

FIGURE 29 illustrates an exemplary screen display 2900 for the dispute resolution process from the point of view of a seller. The seller accesses screen display 2900 after logging in and accessing the report on disputed items. Screen 2900 features a list of all invoices for the seller that have been disputed by a buyer. For each item in the list, information fields display the customer name, the invoice number, the P.O. number, the invoice amount, the due date, the reason for dispute, and the status of the dispute. In an exemplary embodiment, each information field includes a hypermedia link to further information. Hypermedia link 2910 in the information column labeled “Reason for Dispute” facilitates the

dispute resolution process for the seller. The text field in this column displays the reason for the dispute entered by the buyer in display screen 2820 described above and is also a hypermedia link 2910. When the seller clicks on hypermedia link 2910, a display window 2920 is displayed. Display window 2920 contains a text entry field 2921 labeled "Customer Comments:", a selectable field 2922 labeled "Response Options:", and a second text entry field 2923 labeled "Response Comments:." Field 2921 displays the text entered by the seller in text entry field 2822 described above. In an exemplary embodiment, the seller has the opportunity to select a response option and include an explanation for the response. This response is then communicated to the buyer.

Advantageously, the dispute resolution system described in FIGURES 28 and 29 makes dispute resolution easier to manage for both parties involved. In conventional systems, a party wishing to dispute an invoice has to attempt to contact the issuer of the invoice directly by phone or mail or any other method to contest the invoice. Then, the issuer of the invoice has to respond using some similar method. In system 100, all communications are handled by the system, the user simply needs to log the dispute, and the issuer of the invoice simply responds using the functionality described above.

FIGURE 30 illustrates an exemplary display screen 3000 displayed when the seller logs into transaction management and financial services system 100 from display screen 2000 by clicking hyperlink 2020 as described with reference to FIGURE 20. Screen 3000 includes information that may be relevant to a seller of accounts. The statement includes information fields relating to the seller's account. In an exemplary embodiment, the information fields display Current Outstandings, Ineligible Receivables, Funds Employed, Current Availability, Pending Schedules, Disputed Items and Collections. Each information field may include a hypermedia link to more information regarding the information in that field.

In an exemplary embodiment, display screen 3000 also features region 3010 labeled "Submit Invoices" containing two data entry fields labeled

“From:” and “To:” and a button labeled “Submit”. Screen 3000 additionally features region 3020 labeled “Advance Request” which contains one data entry field 3021 labeled “Amount:” and a button labeled “Submit”. Screen 3000 additionally features region 3030 labeled “Credit Line Request” containing entry fields

5 describing the customer, an entry field labeled “Amount of Request:” and a button labeled “Submit”.

FIGURE 31 illustrates an exemplary display screen 3100. Display screen 3100 features a pop up window 3110. Window 3110 is displayed when the user fills data entry field 3021 with a numerical value greater than the numerical

10 value in the information field labeled “Current Availability” and then clicks on the submit button in region 3020. System 100 aids the user in obtaining alternative financing if the amount requested by the user is greater than the amount available. In effect, the user is making a request for financing from transaction management and financial services system 100. If the amount requested is not greater than the

15 amount the user has currently available, the request simply is granted and the information fields would be updated to reflect this change.

However, if the amount requested is greater than the amount the user has available, window 3110 displays a selection field listing alternative financing methods that are available to the user. In an exemplary embodiment, window 3110

20 displays a list of selectable alternatives to the request along with a button labeled “Submit” and a button labeled “Cancel”.

FIGURE 32 illustrates an exemplary system 3200 for implementing the request for an advance that is greater than available funds transaction described above with reference to FIGURES 29, 30, and 31 within transaction management

25 and financial services system 100. System 3200 includes a client computer 3210, a web server 3220 hosting an applications environment 3230, an expert system 3240, a profiling system 3250, a customer database 3260, a customer profiling database 3270, and a underwriting risk database 3280. Application environment 3230 includes a credit design engine 3231, an underwriting application 3232, an account

receivable management and invoicing engine 3233, a customer profiling engine 3234, a document management and storage engine 3235, a directory 3236, and a portfolio management engine 3237. Expert system 3240 includes a client lookup function 3241, business rules 3242, and a database of responses and options 3243.

- 5 Profiling system 3250 includes a profiling manager 3251, business requirements and rules 3252, a publishing manager 3253, and a content manager 3254.

In an exemplary transaction using system 3200 illustrated in FIGURE 32, the user requests an advance as described above. The request from the client is sent from client computer 3210 to web server 3220. Web server 3220 delivers the request of a client to applications environment 3230. Within applications environment 3230, the request is processed by portfolio management engine 3237. Expert system 3240 is engaged or spawned by portfolio engine 3237 to evaluate the request. Expert system 3240 indexes that client in customer database 3260, and then compares that customer's request against business rules 3242 using information in underwriting risk database 3280. An example of a business rule can be a rule that any client that has a dilution of greater than 15% or that has greater than 15% of receivables that are older than 60 days, does not get an over advance. Expert system 3240 crafts an appropriate response that is communicated to client computer 3210.

In an exemplary implementation, the response detailed above can be stored in customer database 3260 and indexed into a stored database containing all of the transaction for that particular customer. In an exemplary embodiment, additional steps can be taken following a denial for an over advance to a customer. The customer can be profiled to determine whether the financial institution for that person has any products or services that may be able to meet the needs for the customer.

If the customer requests an over advance and is denied, the customer profile is analyzed and compared to the requirements for any products and services offered by the financial institution chosen by the customer. If the requirements are

met for any particular product or service, that product or service is offered to the user at the same time as the denial of the over advance request. System 100 is able to offer those services that are available to the customer at the time when they are most in need of the services.

5 In an exemplary embodiment, system 3200 references customer database 3260 for a particular customer. Profiling manager 3251 applies the customer information to business requirements and rules 3252 and compares the results to a set of requirements provided by the financial institution to determine which products and services are appropriate for that customer. Content manager 10 3254 contains banners and other information for the products and services that is delivered to publishing manager 3253. Publishing manager 3253 stores a record of the current web page and the best location for the display of the banners and other information for the products and services offered. Publishing manager 3253 also sends notice to customer database 3260 that an offer for products or services has 15 been made. Because the customer database is continuously being updated with transactions and other information, the products and services available to the customer can change over time.

FIGURE 33 illustrates an exemplary display screen 3300 displayed when the buyer selects a seller listed in an account statement, such as the account 20 statement described with reference to FIGURE 22. Display screen 3300 illustrates one example of the communication modality provided by system 100. In an exemplary embodiment, display screen 3300 includes contact information, such as e-mail address, mailing address, fax number, phone number, etc. Display screen 3300 can also include reports containing hypermedia links to commercial transaction 25 information, such as invoices, seller information, tracking data, etc. as described previously. Advantageously, display screen 3300 illustrates that the buyer can communicate with the buyer using fax or e-mail from within system 100. Customer information does not have to be retrieved from other sources, including personal computers, black books, network servers, or other external information sources. In

addition, the fax and e-mail functionality of system 100 allows information to be automatically pre-populated and transmitted. For example, in one embodiment, a report can be attached to a fax or e-mail from within system 100 by selecting the report from a menu on display screen 3300. Advantageously, when sent in e-mail
 5 format, these reports include hypermedia links to commercial transaction information. In either fax or e-mail form, communication between participants is made more efficient and effective.

FIGURE 34 illustrates an exemplary display screen 3400 displayed when the buyer selects commercial transaction information to attach to a
 10 communication with another participant in system 100. Advantageously, attaching information that is pertinent to the communication improves the efficiency and effectiveness of the communication. Additionally, hypermedia links contained within the attached commercial transaction information further increase the efficiency and effectiveness of the communication.

15 FIGURE 35 illustrates an exemplary display screen 3500 identifying collection activity for a seller over a given period of time. Specifically, display screen 3500 includes all commercial transaction information relevant to a received payment, including the invoice being paid, date of payment, date of invoice, amount of payment, the name of the debtor making the payment, check number, invoice
 20 credits, etc. In addition, images of commercial transaction information can be accessed using hypermedia links. To illustrate some of the advantages relevant to the use of display screen 3500, the following example is given. If the invoice is not paid in full, a credit appears on display screen 3500. Clicking on hypermedia link 3510 or 3520 displays the image of the check and remittance advice in which a short
 25 payment was taken. One example image is illustrated in FIGURE 36.

FIGURE 36 illustrates an exemplary display screen 3600 of an image display of a check and a remittance advice from a debtor having made a payment directly to system 100. The image is displayed when a hypermedia link 3510 is selected from display screen 3500 (FIGURE 35). In the example described above,

the seller identifies the short payment and seeks to obtain additional information for management purposes. For example, the seller may view an image of the invoice which was short paid by clicking on a hypermedia link 3530 (FIGURE 35). An exemplary invoice is illustrated in a display screen 3700 shown in FIGURE 37.

5 Having viewed the check and invoice, the seller may determine that the short payment was unauthorized. The seller can then communicate with the debtor. Advantageously, by clicking on the debtor name on the collection activity screen of display screen 3500, the seller can view a display screen 3800 illustrated in FIGURE 38. Display screen 3800 can include contact information for the debtor,
10 such as e-mail address, mailing address, fax number, phone number, etc. Display screen 3800 can also include reports containing hypermedia links to commercial transaction information, such as invoices, debtor information, tracking data, etc. Advantageously, display screen 3800 illustrates that the seller can communicate with the debtor using fax or e-mail from within system 100. Debtor information does not
15 have to be retrieved from other sources, including personal computers, black books, network servers, or other external information sources. Further, in one embodiment where the seller is trying to resolve an unauthorized short payment, the seller can easily attach invoice and payment information, including hypermedia links and/or images to a fax or e-mail initiated within system 100. As explained above
20 with reference to FIGURES 33-34, communication between participants is made more efficient and effective.

 While the embodiments illustrated in the FIGURES and described above are presently preferred, it should be understood that these embodiments are offered by way of example only. Other embodiments may include various processes
25 for carrying out the functions described. Further, various data structures, networks, communication systems, and computing devices may be included or substituted for those described herein. The invention is not limited to a particular embodiment, but extends to various modifications, combinations, and permutations that nevertheless fall within the scope and spirit of the appended claims.

001.852864.3

WHAT IS CLAIMED IS:

1. A method of providing an integrated financial and transaction management services system over a network, the method comprising:

aggregating commercial transaction information including images to a
5 central server computer configured to be accessed by a remote device, the commercial transaction information being associated with a commercial transaction;

communicating the commercial transaction information between the central server computer and the remote device; and

displaying commercial transaction information on a user interface at
10 the remote device, whereby a seller and a buyer can do any one of access, manage, modify, maintain, and conclude their commercial transactions.

2. The method of claim 1, further comprising providing access to ancillary commercial transaction information to facilitate management, modification, maintenance, and conclusion of commercial transactions.

15 3. The method of claim 2, further comprising communicating the ancillary commercial transaction information to the remote device.

4. The method of claim 3, further comprising displaying ancillary commercial transaction information on a user interface at the remote device.

20 5. The method of claim 2, wherein the step of providing access to ancillary commercial transaction information comprises providing the remote device with access to the ancillary commercial transaction information on an external server computer.

6. The method of claim 1, wherein the step of aggregating commercial transaction information to a central server computer comprises receiving electronic

commercial transaction information, receiving paper-based commercial transaction information, converting the paper-based commercial transaction information into an electronic format and storing the received commercial transaction information in the central server computer.

5 7. The method of claim 1, wherein the commercial transaction information comprises any one of an invoice, a purchase order, shipping documentation, check copies, check remittance information, credit memos, time tickets, and other documentation associated with commercial transactions.

10 8. The method of claim 2, wherein the ancillary commercial transaction information comprises any one of electronic shipping information, bank account information, and other information necessary to manage, maintain, and conclude commercial transactions.

15 9. The method of claim 1, wherein the step of aggregating commercial transaction information comprises linking commercial transaction information to the associated commercial transaction and accounts of a Buyer or Seller that are parties to the commercial transaction.

20 10. The method of claim 1, further comprising facilitating the management, maintenance, and conclusion of commercial transactions by enabling external users to access the central server computer to review commercial transaction information.

 11. The method of claim 1, further comprising facilitating the management, maintenance, and conclusion of commercial transactions by enabling external users to access the central server computer to communicate with other users regarding the commercial transaction information.

12. The method of claim 1, further comprising facilitating the management, maintenance, and conclusion of commercial transactions by enabling external users to access the central server computer to modify commercial transaction information.

5 13. The method of claim 1, further comprising facilitating the management, maintenance, and conclusion of commercial transactions by enabling external users to access the central server computer to reconcile modifications of commercial transaction information with an accounting system located at the remote device.

10 14. The method of claim 1, further comprising facilitating the management, maintenance, and conclusion of commercial transactions by enabling external users to access the central server computer to conclude and reconcile commercial transactions with an accounting system located at the remote device.

15 15. The method of claim 1, further comprising performing at least one operation with respect to the commercial transaction information, wherein the at least one operation involves a marketplace of any one of a Buyer, a Seller, a financial institution, and a company.

20 16. The method of claim 15, wherein the at least one operation performed by the Buyer comprises any one of financing, trade credit approval, dispute resolution, on-line payment, reconciliation of commercial transactions, vendor management, and commercial transaction management.

25 17. The method of claim 15, wherein the at least one operation performed by the Seller comprises any one of financing, management of financing relationship, trade credit approval requests, dispute resolution, initiation of advances from financing products, buyer management, download and reconciliation of transaction information, and commercial transaction management.

18. The method of claim 15, wherein the at least one operation performed by the financial institution comprise referring declinations, tracking declinations, tracking relationships established resulting from referral (sellers), gathering data on sellers, retrieving data on buyers transacting business with sellers, and providing
5 information to modify content in the integrated financial and transaction management services system.

19. The method of claim 1, further comprising establishing an account for access to the integrated financial and transaction management services system.

20. The method of claim 1, further comprising performing domestic trade
10 credit underwriting comprising the steps of:

receiving an application for trade credit from a seller; and

where there is sufficient information to make a recommendation,
communicating a trade credit recommendation to a seller;

where there is not sufficient information to make a recommendation,
15 obtaining additional information.

21. The method of claim 20, further comprising aggregating credit information to be used in making a recommendation.

22. The method of claim 20, further comprising aggregating credit information to be used in making a guarantee.

20 23. The method of claim 1, further comprising performing dispute resolution comprising the steps of:

receiving dispute information related to an invoice, the dispute information including information identifying the disputed invoice, the invoice having an invoice issuer and an invoice recipient;

communicating the dispute information to the invoice issuer; and

providing for communication between the invoice issuer and the invoice recipient to facilitate resolution of the dispute.

24. The method of claim 23, further comprising linking commercial
5 transaction information to dispute communications.

25. The method of claim 1, further comprising performing transaction management comprising the steps of:

receiving commercial transaction information including any one of an invoice, a purchase order, shipping documents, and credit memos, the documents
10 relating to a commercial transaction between a buyer and a seller;

storing commercial transaction information, including images, within the central server computer; and

providing access to commercial transaction documentation to both the buyer and the seller, commercial transaction documentation including commercial
15 transaction information and ancillary commercial transaction information.

26. The method of claim 25, further comprising sending commercial account statements.

27. The method of claim 25, further comprising the receipt and application of electronic and paper-based payments.

20 28. The method of claim 27, further comprising storing payment information, including images, within the central server computer.

29. The method of claim 27, further comprising facilitating the management and collection of payments.

30. The method of claim 1, further comprising providing financing,
comprising the steps of:

receiving information regarding a financing seeking party;

where there is sufficient information to make a proposal, making a
5 proposal to provide financing to the financing seeking party;

where there is not sufficient information to make a proposal,
obtaining additional information; and

if the proposal is declined, providing an alternative financing
proposal.

10 31. The method of claim 1, wherein the step of displaying commercial
transaction information on a user interface at the remote device comprises providing
customized content for the display on the user interface based on company and user
profiles.

15 32. The method of claim 1, further comprising electronically enabling
off-line commercial transactions.

33. The method of claim 32, wherein the step of electronically enabling
off-line commercial transactions comprises converting off-line documents into
digital format using a facsimile to data device.

20 34. The method of claim 32, wherein the step of electronically enabling
off-line commercial transactions comprises converting off-line documents into
digital format using a scanning technology.

35. The method of claim 32, wherein the step of electronically enabling
off-line commercial transactions comprises converting off-line documents into
digital format by uploading documents from external computer systems.

36. The method of claim 1, further comprising:

receiving information regarding a financing seeking party;

when the financing seeking party does not meet financing parameters,
referring the financing seeking party to an alternative financing provider.

5 37. A system comprising:

a memory storage device that maintains commercial transaction
information for a plurality of companies;

10 a communication module that communicates commercial transaction
information between a central server and a remote device, the communication
module enabling the plurality of companies access to commercial transaction
information; and

15 a processing module, the processing module being configured to
perform operations using the commercial transaction information communicated by
the communication module and stored by the memory storage device, the
commercial transaction information operations being associated with financial and
transaction management services.

38. The system of claim 37, wherein the processing module is configured
to provide financing.

20 39. The system of claim 38, wherein the financing is in accordance with a
declination referral model.

40. The system of claim 37, wherein the processing module is configured
to perform any one of a financing function, a transaction management function, and
a trade credit underwriting function.

41. The system of claim 37, wherein the commercial transaction information includes data and images associated with accounts receivable of a participant in the at least one marketplace.

5 42. The system of claim 37, wherein the processing module performs operations including the providing of commercial transaction information and images for display on a computer screen.

43. An integrated financial and transaction management services system, the system comprising:

10 means for aggregating commercial transaction information including images to a central server computer configured to be accessed by a remote device, the commercial transaction information being associated with a commercial transaction;

means for communicating the commercial transaction information between the central server computer and the remote device; and

15 means for displaying commercial transaction information on a user interface at the remote device, whereby a seller and a buyer can do any one of access, manage, modify, maintain, and conclude their commercial transactions.

44. The system of claim 43, further comprising means for performing domestic trade credit underwriting comprising:

20 means for receiving an application for trade credit from a seller; and

where there is sufficient information to make a recommendation, means for communicating a trade credit recommendation to a seller;

where there is not sufficient information to make a recommendation, means for obtaining additional information.

45. The system of claim 43, further comprising means for performing dispute resolution comprising:

means for receiving dispute information related to an invoice, the dispute information including information identifying the disputed invoice, the invoice having an invoice issuer and an invoice recipient;

means for communicating the dispute information to the invoice issuer; and

means for providing for communication between the invoice issuer and the invoice recipient to facilitate resolution of the dispute.

46. The system of claim 43, further comprising means for performing transaction management comprising:

means for receiving commercial transaction information including any one of an invoice, a purchase order, shipping documents, and credit memos, the documents relating to a commercial transaction between a buyer and a seller;

means for storing commercial transaction information, including images, within the central server computer; and

means for providing access to the commercial transaction documentation to both the buyer and the seller.

47. The system of claim 43, further comprising means for providing financing, comprising:

means for receiving information regarding a financing seeking party;

where there is sufficient information to make a proposal, means for making a proposal to provide financing to the financing seeking party;

where there is not sufficient information to make a proposal, means for obtaining additional information; and

if the proposal is declined, means for providing an alternative financing proposal.

5 48. The system of claim 43, wherein the means for displaying commercial transaction information on a user interface at the remote computer comprises means for providing customized content for the display on the user interface based on a company profile.

10 49. The system of claim 43, further comprising means for receiving a communication from a web site to initiate operations within the integrated financial and transaction management services system.

50. The method of claim 1, further comprising performing domestic trade credit underwriting comprising the steps of:

receiving an application for trade credit from a seller;

15 communicating trade credit information to the seller as to facilitate a trade credit decision; and

linking the trade credit information to the application for trade credit.

20 51. A method of aggregating information on providers of commercial transaction management services, trade credit analysis services, credit guaranteeing services, where the commercial transaction management services, trade credit analysis services, and credit guaranteeing services include services which facilitate any one of the management, maintenance, modification, and conclusion of commercial transactions, trade credit, and credit guaranteeing, the method comprising:

aggregating indicia of providers of commercial transaction
management services, trade credit analysis services, credit guaranteeing services;

communicating the indicia for presentation at a remote device; and

receiving from the remote device a communication indicative of a
5 selection of a provider of commercial transaction management services, trade credit
analysis services, credit guaranteeing services.

52. The method of claim 51, further comprising communicating the
selection of a provider of commercial transaction management services, trade credit
analysis services, credit guaranteeing services to the selected provider.

10 53. The method of claim 51, further comprising communicating a matrix
to display at a remote device, the matrix including names of providers of
commercial transaction management services, trade credit analysis services, credit
guaranteeing services.

15 54. The method of claim 53, wherein the matrix further comprises names
of providers of commercial transaction management services, trade credit analysis
services, and credit guaranteeing services having proprietary products and service
offerings, these offerings being similar in nature and competing with any one of the
product and service offerings of a central transaction management and financial
services system.

20 55. The method of claim 51, further comprising communicating
hypermedia links associated with the providers of commercial transaction
management services, trade credit analysis services, and credit guaranteeing
services.

25 56. A method of aggregating information on providers of technology
enabling any one of the management, maintenance, modification, and conclusion of

commercial transactions, trade credit analysis, and credit guaranteeing, the method comprising:

aggregating indicia of providers of technology enabling any one of the management, maintenance, modification, and conclusion of commercial transactions, trade credit analysis, and credit guaranteeing; and

communicating the indicia of providers of technology enabling any one of the management, maintenance, modification, and conclusion of commercial transactions, trade credit analysis, and credit guaranteeing for presentation at a remote device.

57. A method of compiling information on providers of commercial transaction management services, trade credit analysis services, and credit guaranteeing services, where the services include services which facilitate any one of the management, maintenance, modification, and conclusion of commercial transactions, trade credit analysis, and credit guaranteeing, the method comprising:

compiling a list of names and information associated with providers of commercial transaction management services, trade credit analysis services, and credit guaranteeing services; and

communicating the list associated with providers of commercial transaction management services, trade credit analysis services, and credit guaranteeing services for presentation at a remote device.

58. The method of claim 19, wherein the step of establishing an account further comprises, for a seller, permitting the seller to establish trade credit guidelines.

59. The method of claim 58, if the seller desires to establish trade credit guidelines, wherein the step of permitting the seller to establish trade credit

guidelines further comprises communicating possible criteria from which the seller chooses desired trade credit guidelines.

60. A method of providing a guarantee as to the financial ability of a buyer to pay commercial obligations to a seller, the method comprising:

5 communicating information on a buyer to guarantee providers, wherein the guarantee providers include any one of credit insurance companies, factoring companies, and companies providing guarantees of commercial concerns' ability to pay obligations;

receiving responses from the guarantee providers; and

10 presenting at least one response to a seller.

61. The method of claim 60, further comprising: selecting the most favorable response from the guarantee providers; and providing the most favorable response to a seller.

62. The method of claim 60, wherein the seller can select the presented
15 guarantee from a list.

63. A method of providing a guarantee as to the financial ability of a buyer to pay commercial obligations to a seller, the method comprising:

20 evaluating a buyer to determine whether the buyer meets system-determined underwriting criteria, the system-determined underwriting criteria being variables used to determine the financial ability of the buyer to pay commercial obligations and whether the system should assume the risk of non-payment due to financial inability; and

if the buyer does not meet system-determined underwriting criteria, seeking an alternative provider for the guarantee by determining whether sufficient

information exists to match application information on a buyer with required underwriting information provided as part of the underwriting guidelines of a plurality of alternative guarantee providers; and, if the required underwriting information exists, matching application information on the buyer to underwriting
5 guidelines of a plurality of alternative guarantee providers and determining whether one or more matches exist.

64. The method of claim 63, if the seller accepts the guarantee, further comprising notifying a guarantee provider of the accepted guarantee.

65. A method of providing a guarantee as to the financial ability of a
10 buyer to pay commercial obligations to a seller, the method comprising:

evaluating the buyer to determine whether the buyer meets system-determined underwriting criteria, the system-determined underwriting criteria being variables used to determine the financial ability of the buyer to pay commercial obligations and whether the system should assume the risk of non-payment due to
15 financial inability; and

if the buyer does not meet system-determined underwriting criteria:
communicating information on a buyer to guarantee providers, wherein the guarantee providers include any one of credit insurance companies, factoring companies, and companies providing guarantees of commercial concerns' ability to
20 pay obligations;

receiving responses from the guarantee providers; and

presenting at least one response to a seller.

66. A method of providing a guarantee as to the financial ability of a buyer to pay commercial obligations to a seller, the method comprising:

determining whether sufficient information exists to match application information on a buyer with required underwriting information provided as part of the underwriting guidelines of a plurality of alternative guarantee providers;

5 if the required underwriting information exists, matching application information on a buyer to underwriting guidelines of a plurality of alternative guarantee providers and determining whether one or more matches exist;

presenting the one or more match to a seller.

67. A method of aggregating information on providers of commercial transaction management services, where the commercial transaction management
10 services include guaranteeing credit, the method comprising:

aggregating indicia of providers of commercial transaction management services; and

communicating the indicia for presentation at a remote device.

68. The method of claim 67, wherein the step of aggregating indicia of
15 providers of commercial transaction management services further comprises communicating a matrix to present at a remote device, the matrix including names of providers of commercial transaction management services.

69. The method of claim 68, wherein the matrix further comprises names
20 of providers of commercial transaction management services having proprietary products and service offerings, these offerings being similar in nature and competing with any one of the product and service offerings of a central transaction management and financial services system.

70. The method of claim 67, further comprising communicating
25 hypermedia links associated with the providers of commercial transaction management services.

71. The method of claim 67, further comprising receiving a selection of providers of commercial transaction management services from the seller.

001.852864.3

**SYSTEM FOR AND METHOD OF PROVIDING FINANCIAL AND
TRANSACTION MANAGEMENT SERVICES OVER A NETWORK**

ABSTRACT OF THE DISCLOSURE

A system for and method of providing integrated financial and
5 transaction management services over a network are described. One method of the
system includes aggregating commercial transaction information associated with a
commercial transaction and including images to a central server computer
configured to be accessed by a remote device, communicating the commercial
transaction information between the central server computer and the remote device,
10 and displaying commercial transaction information on a user interface at the remote
device, whereby a seller and a buyer can do any one of access, manage, modify,
maintain, and conclude their commercial transactions. Other methods performed by
the integrated financial and transaction management services system are also
described.

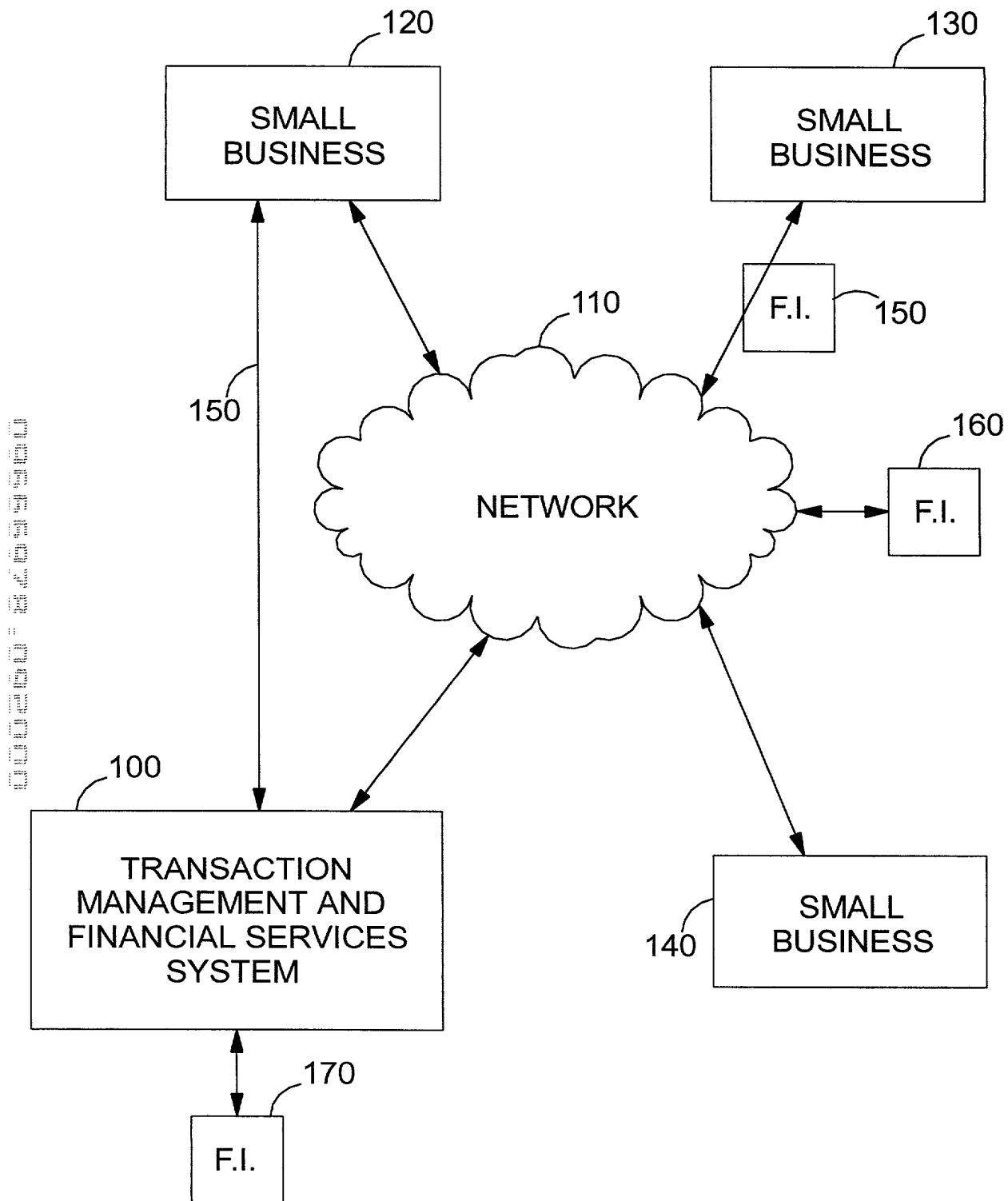


FIG. 1

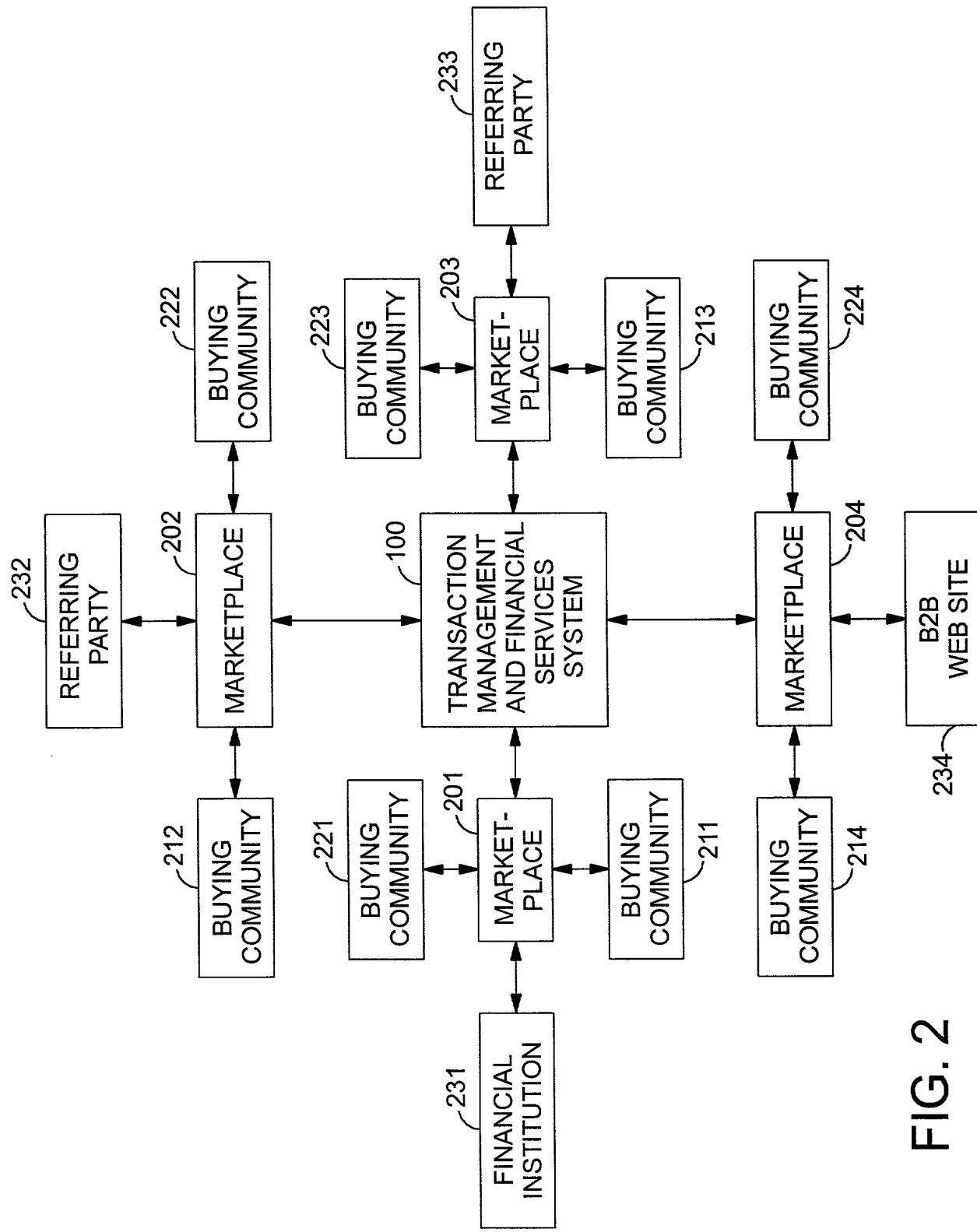


FIG. 2

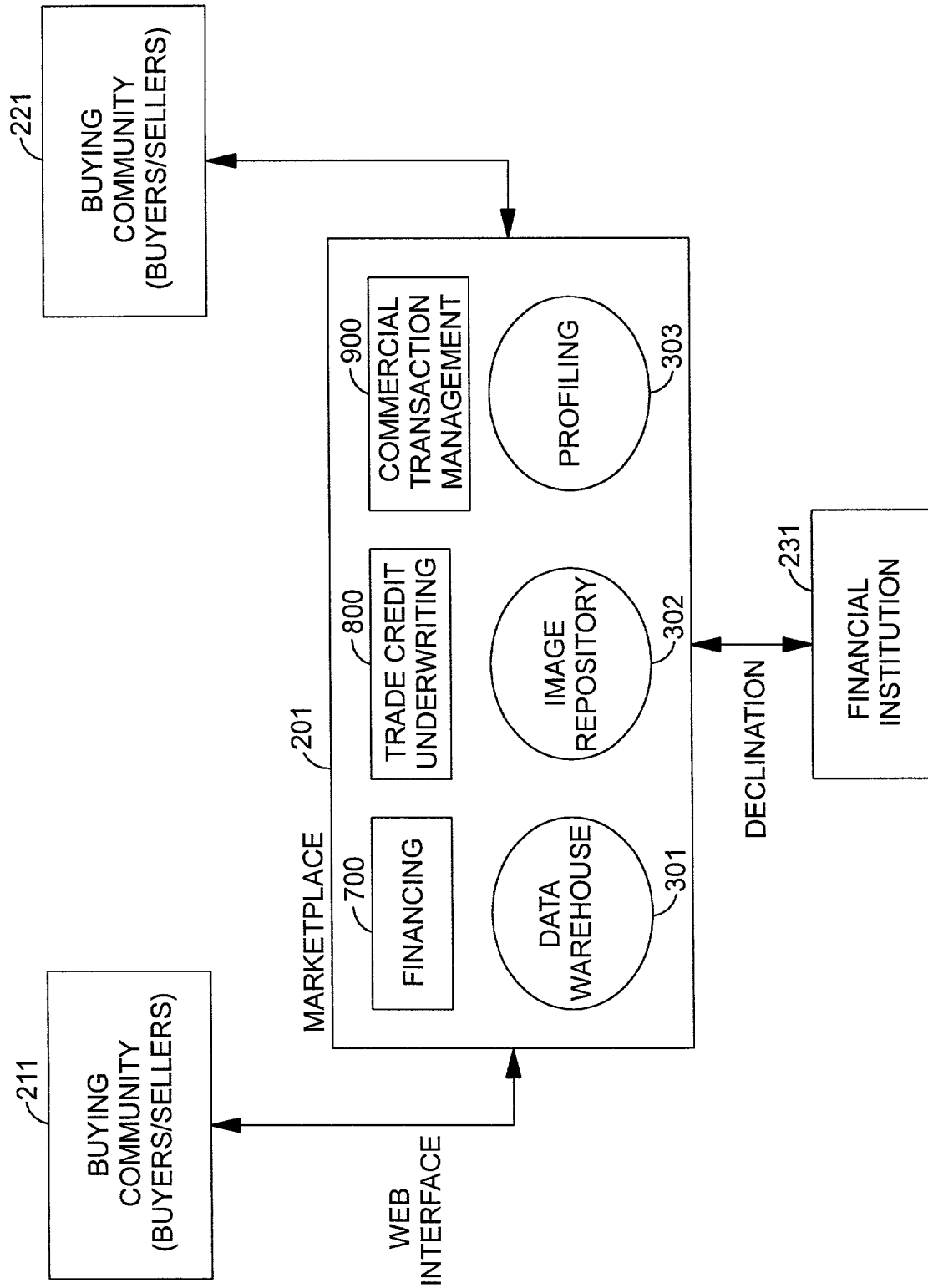


FIG. 3

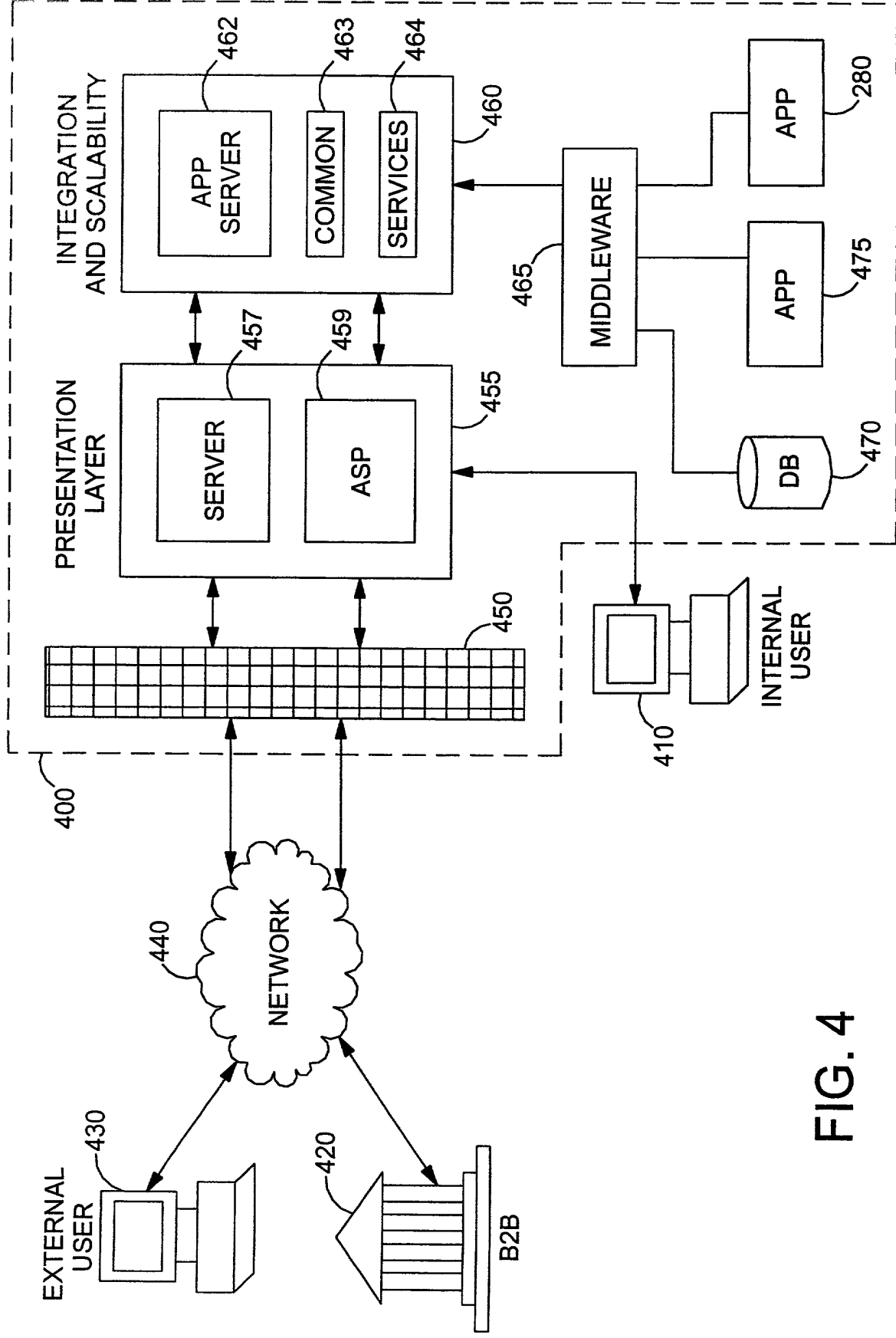


FIG. 4

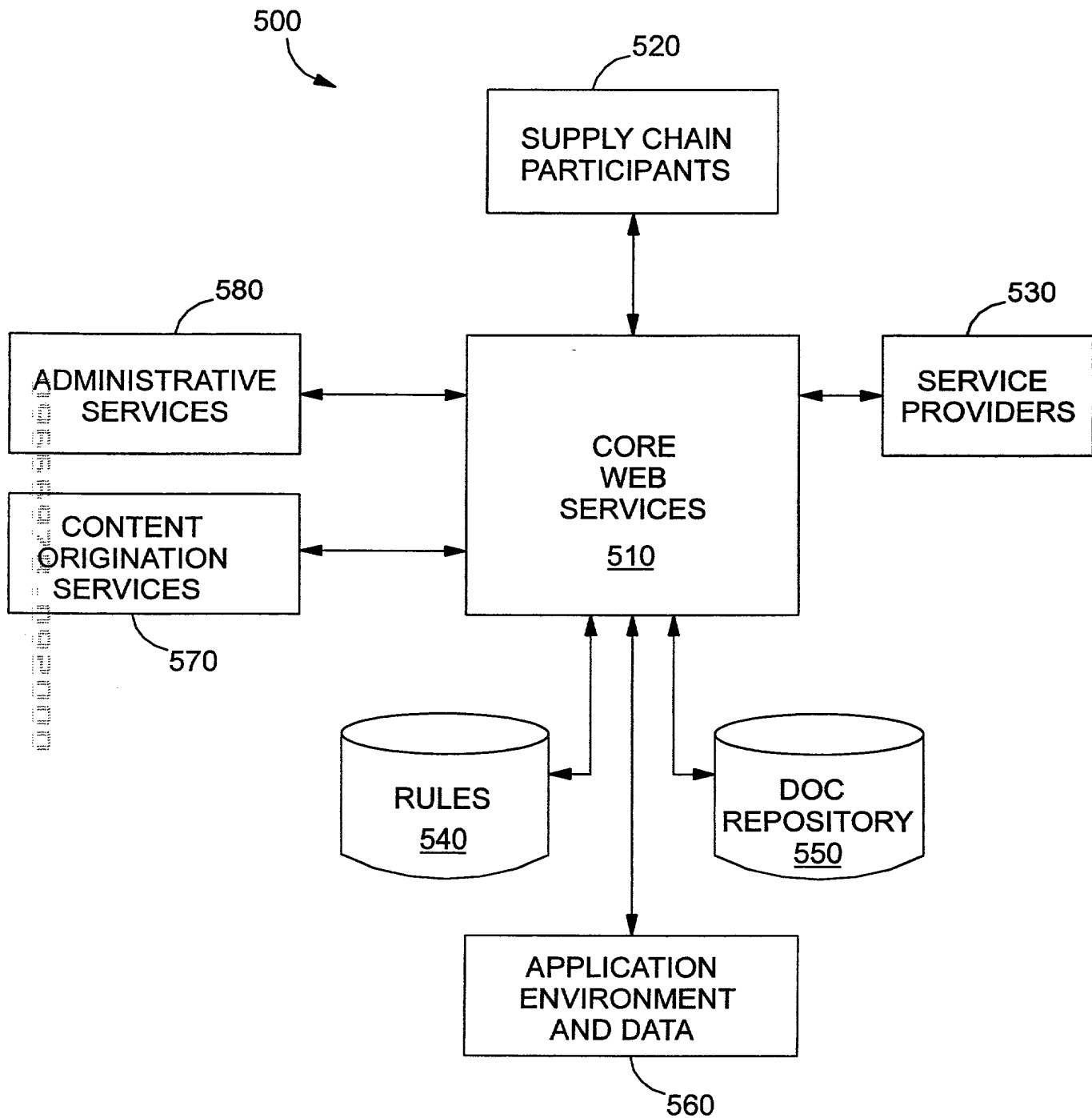


FIG. 5

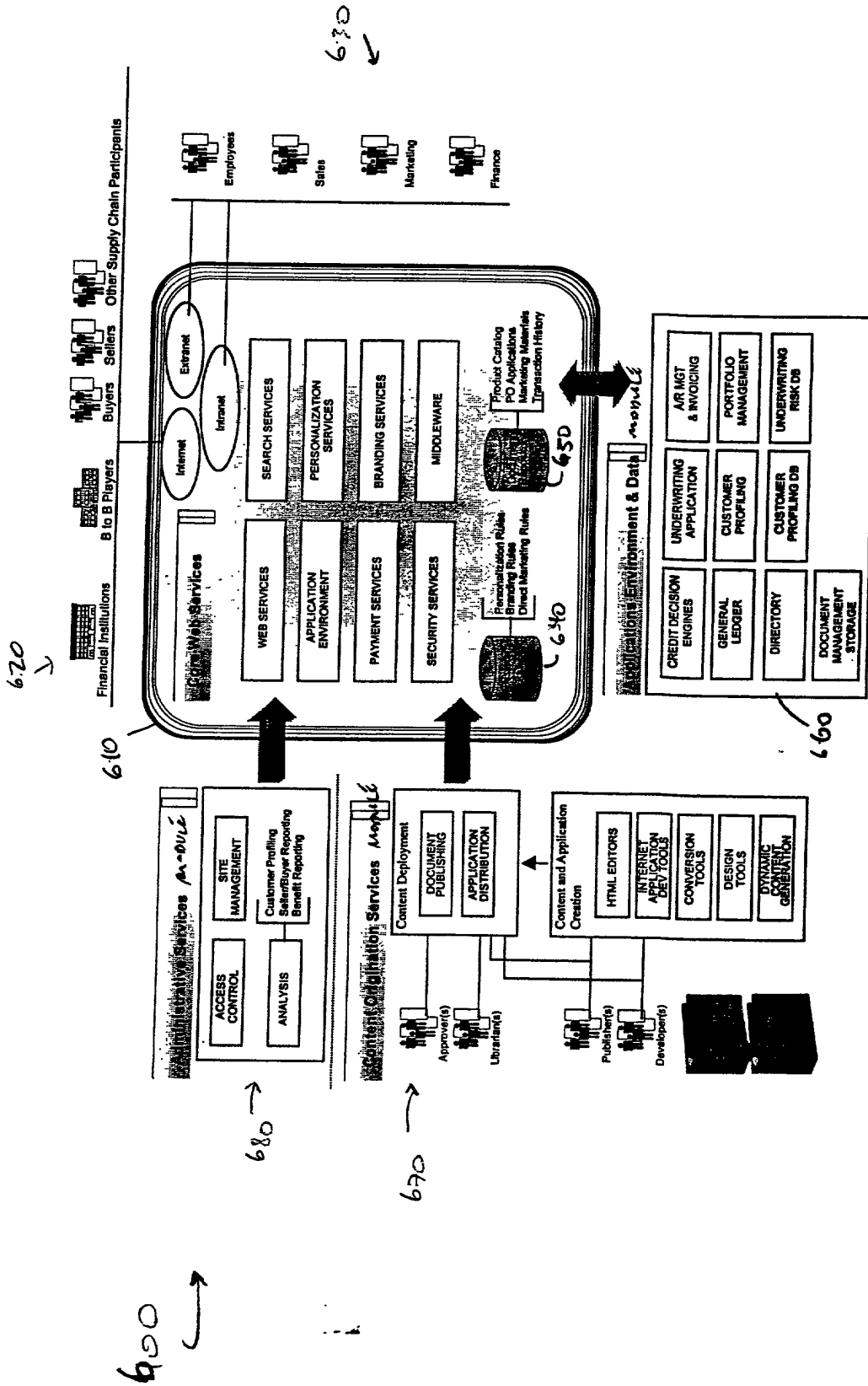


FIG. 6

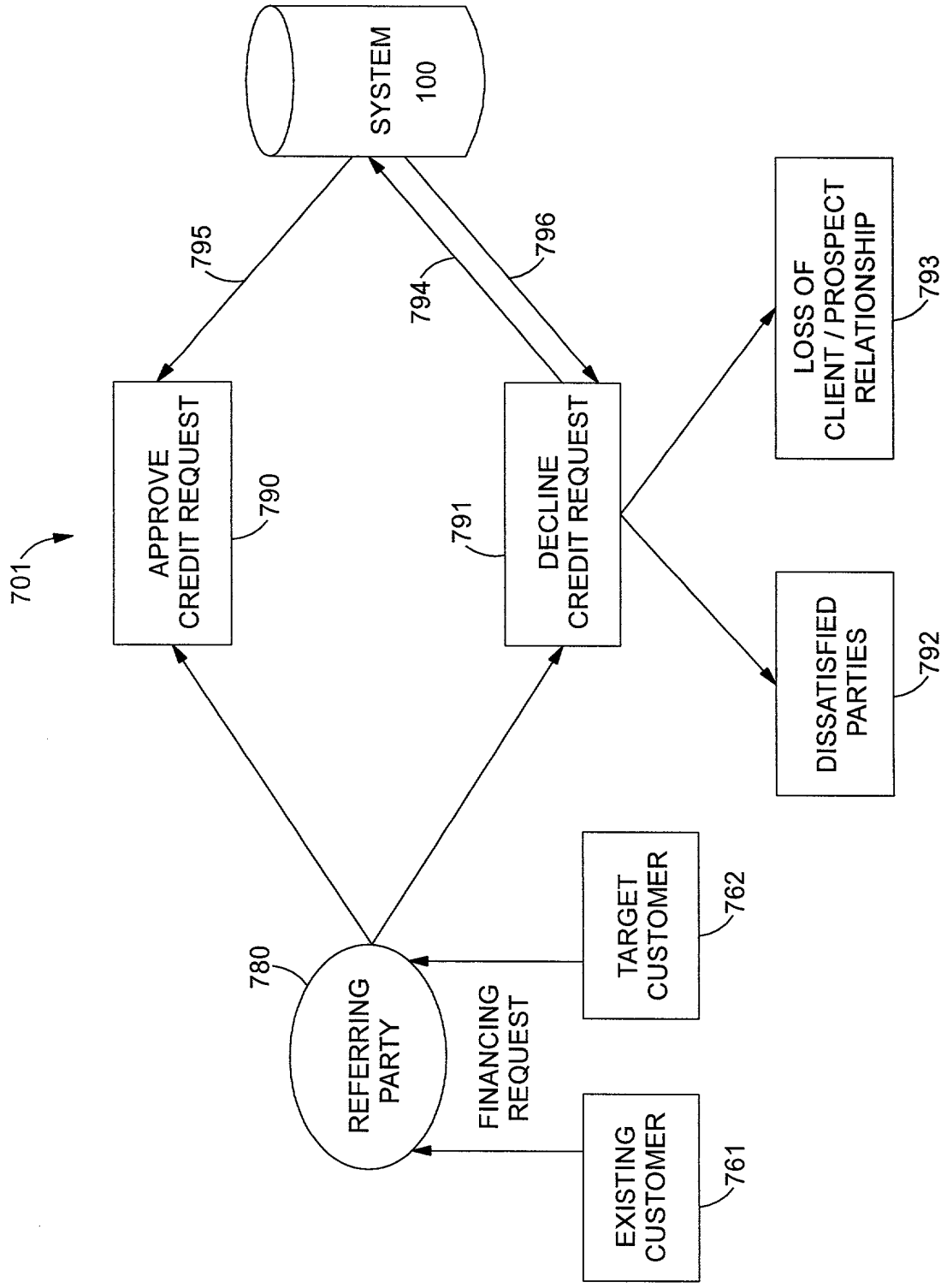


FIG. 7A

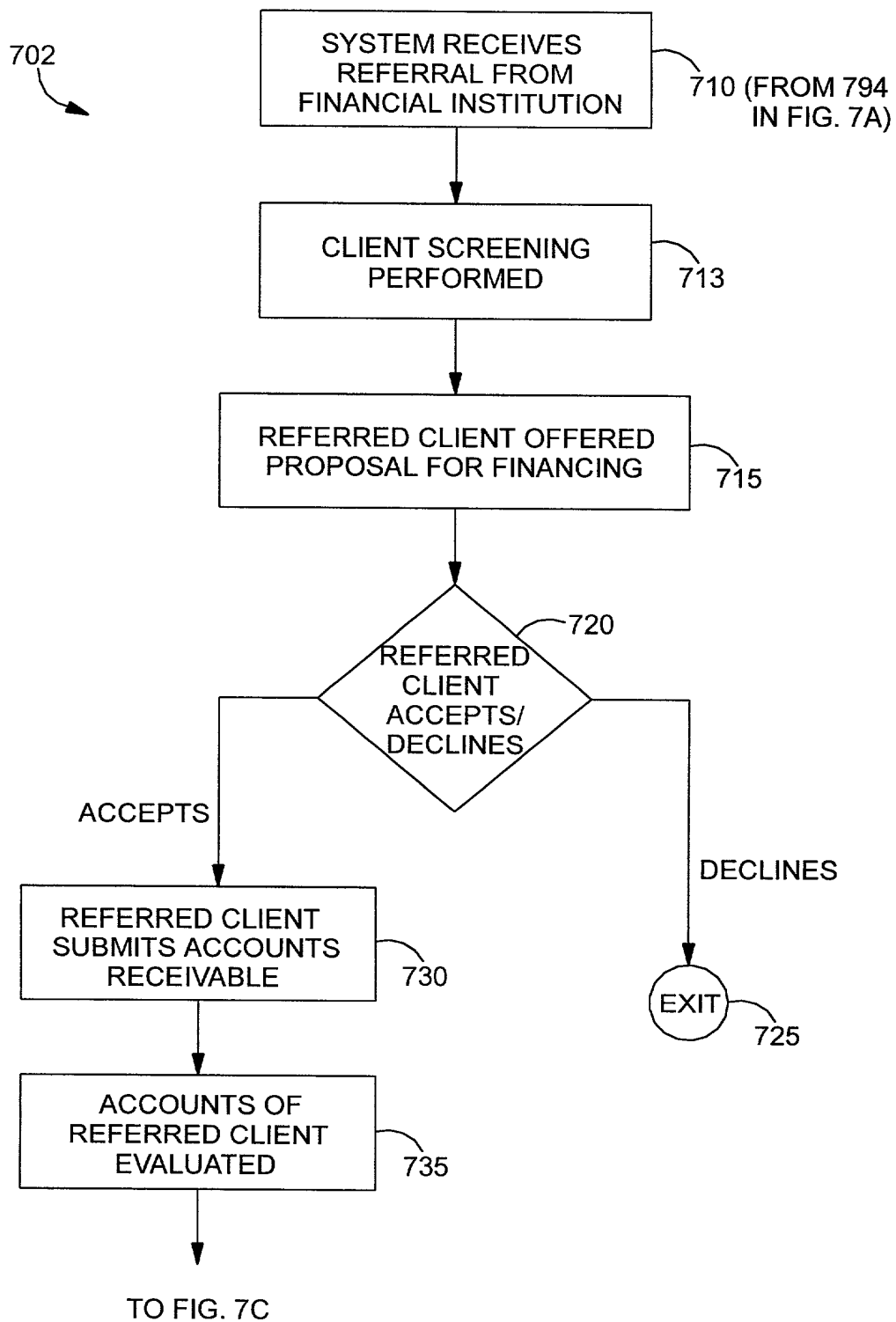


FIG. 7B

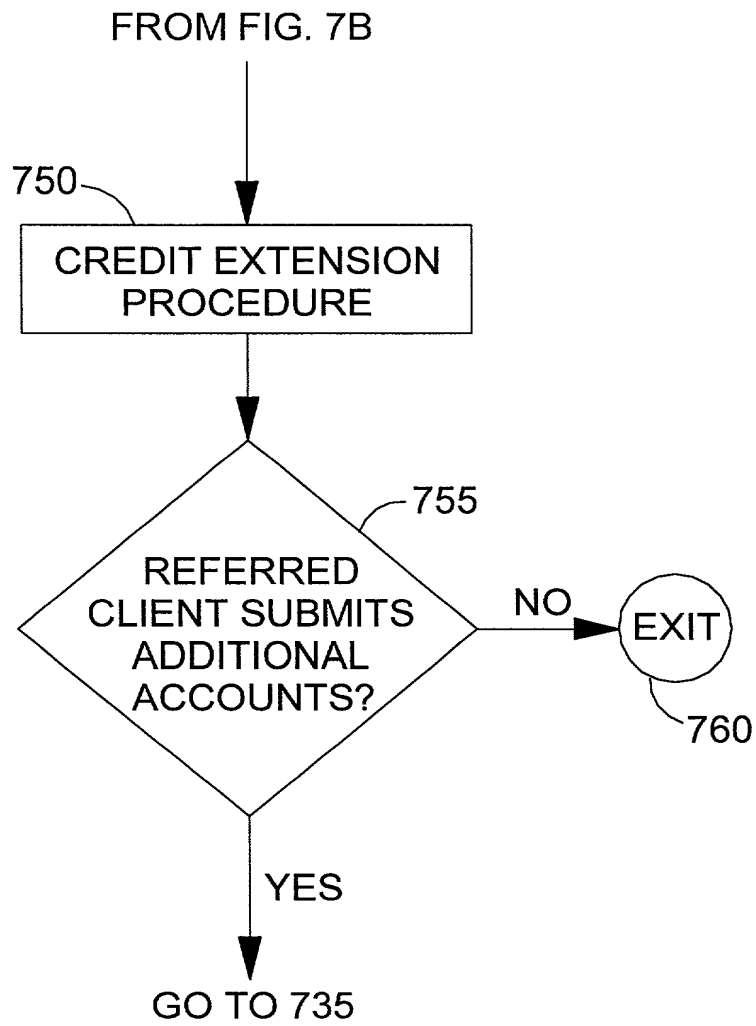


FIG. 7C

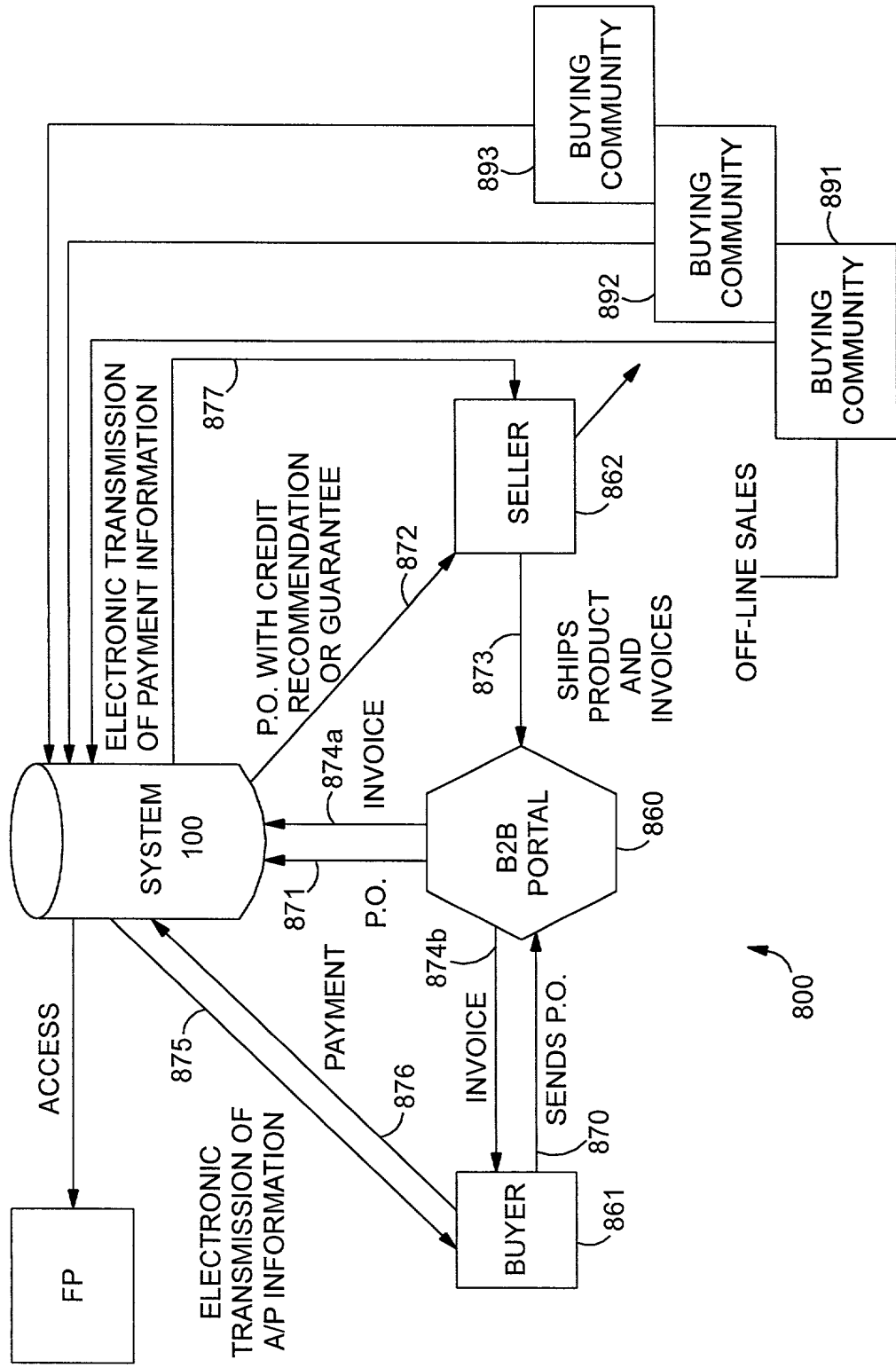


FIG. 8A

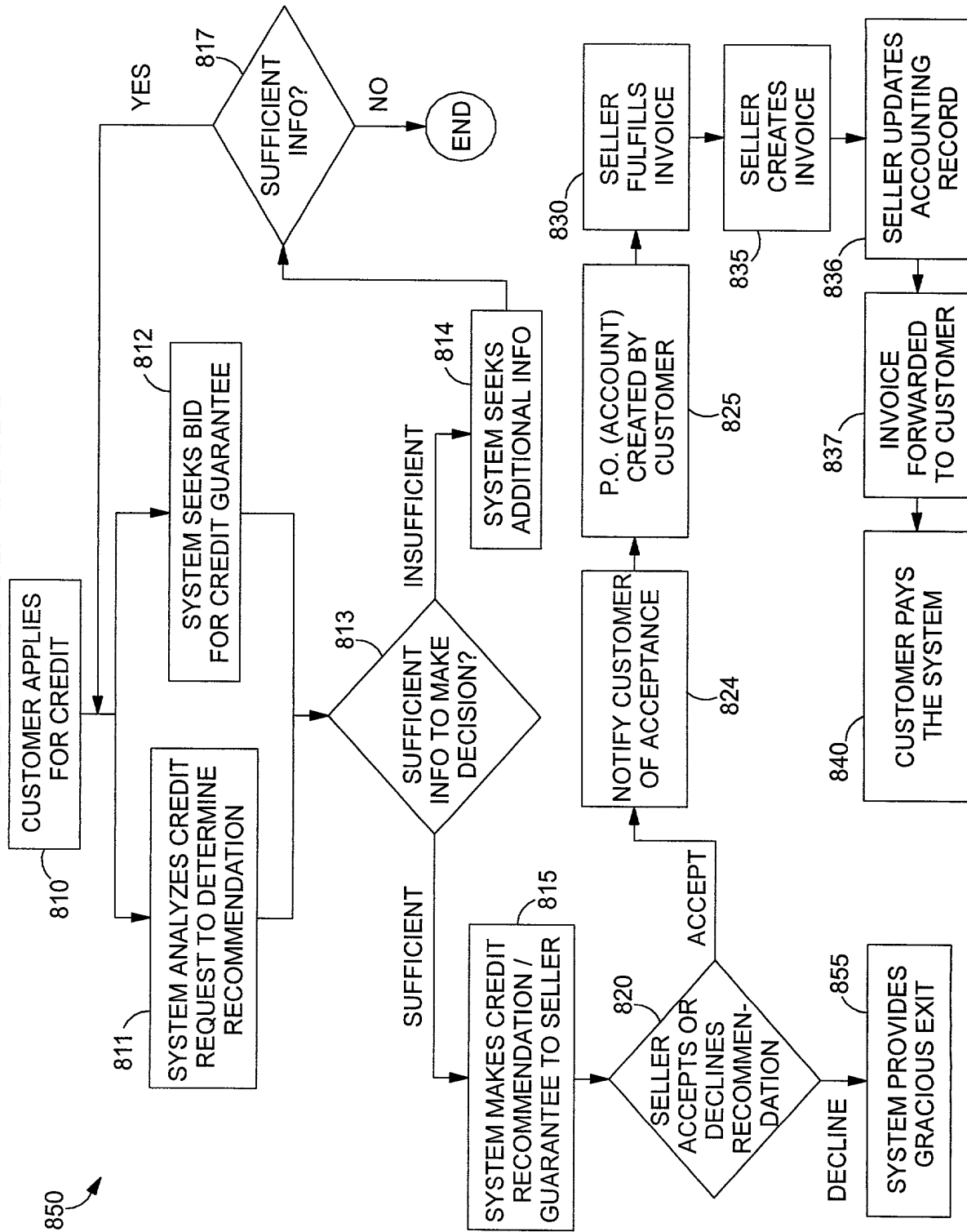


FIG. 8B

870

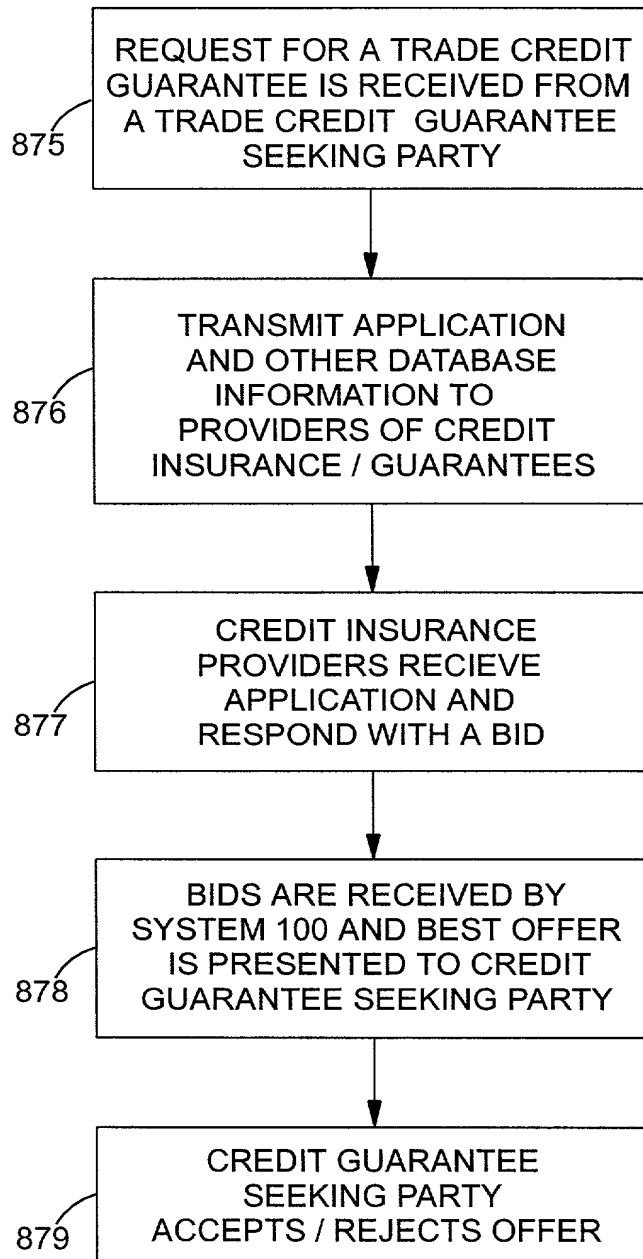


FIG. 8C

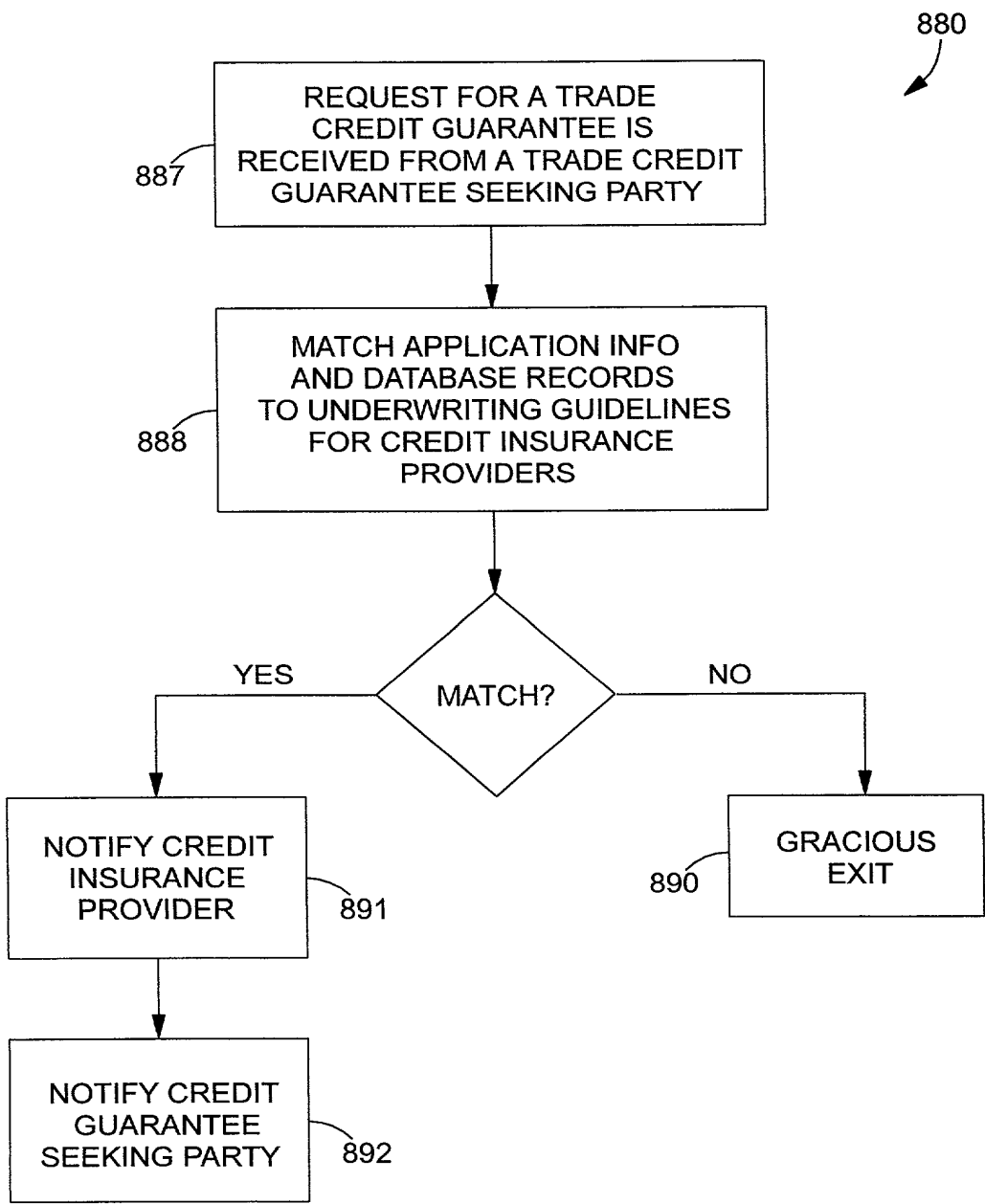


FIG. 8D

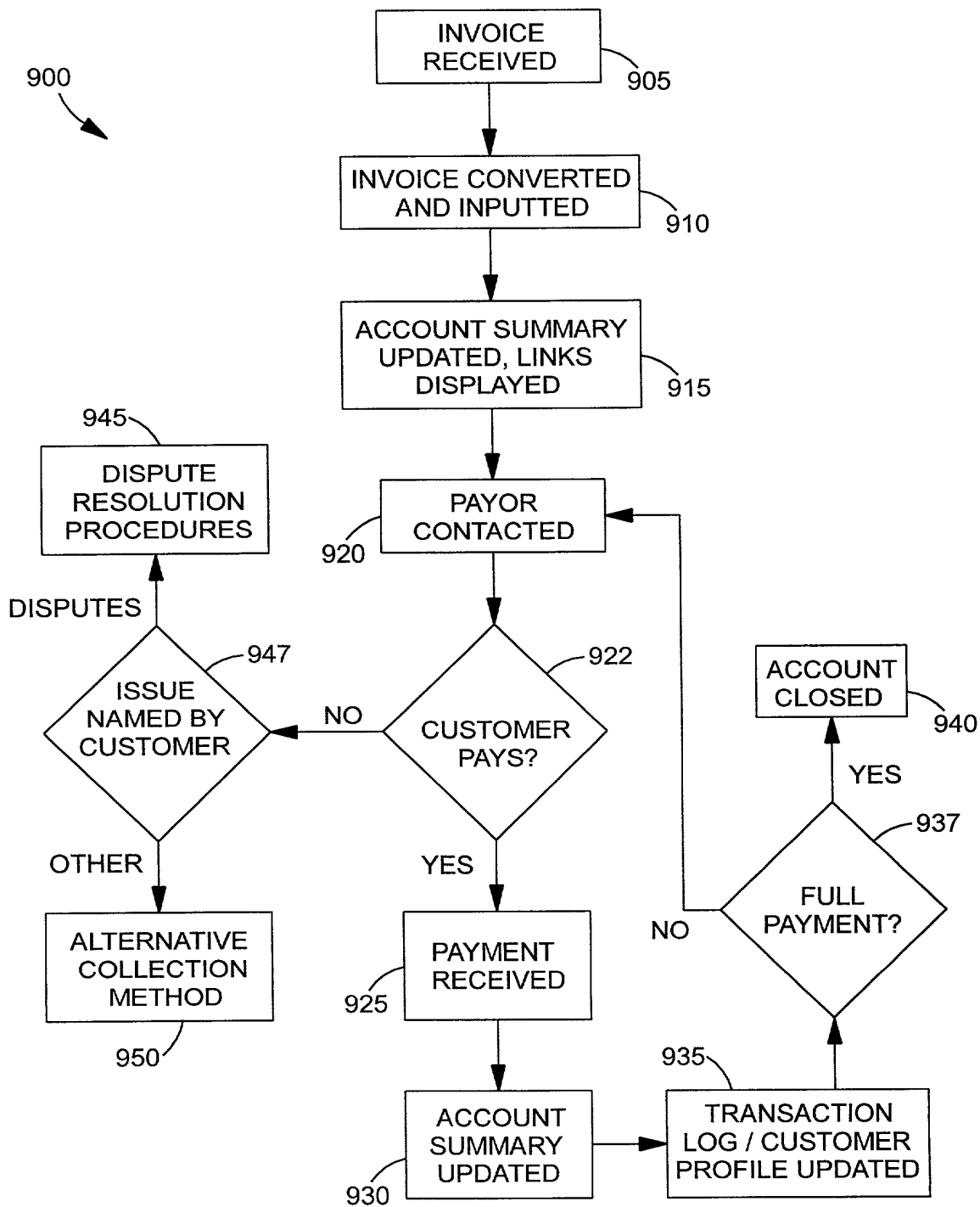


FIG. 9

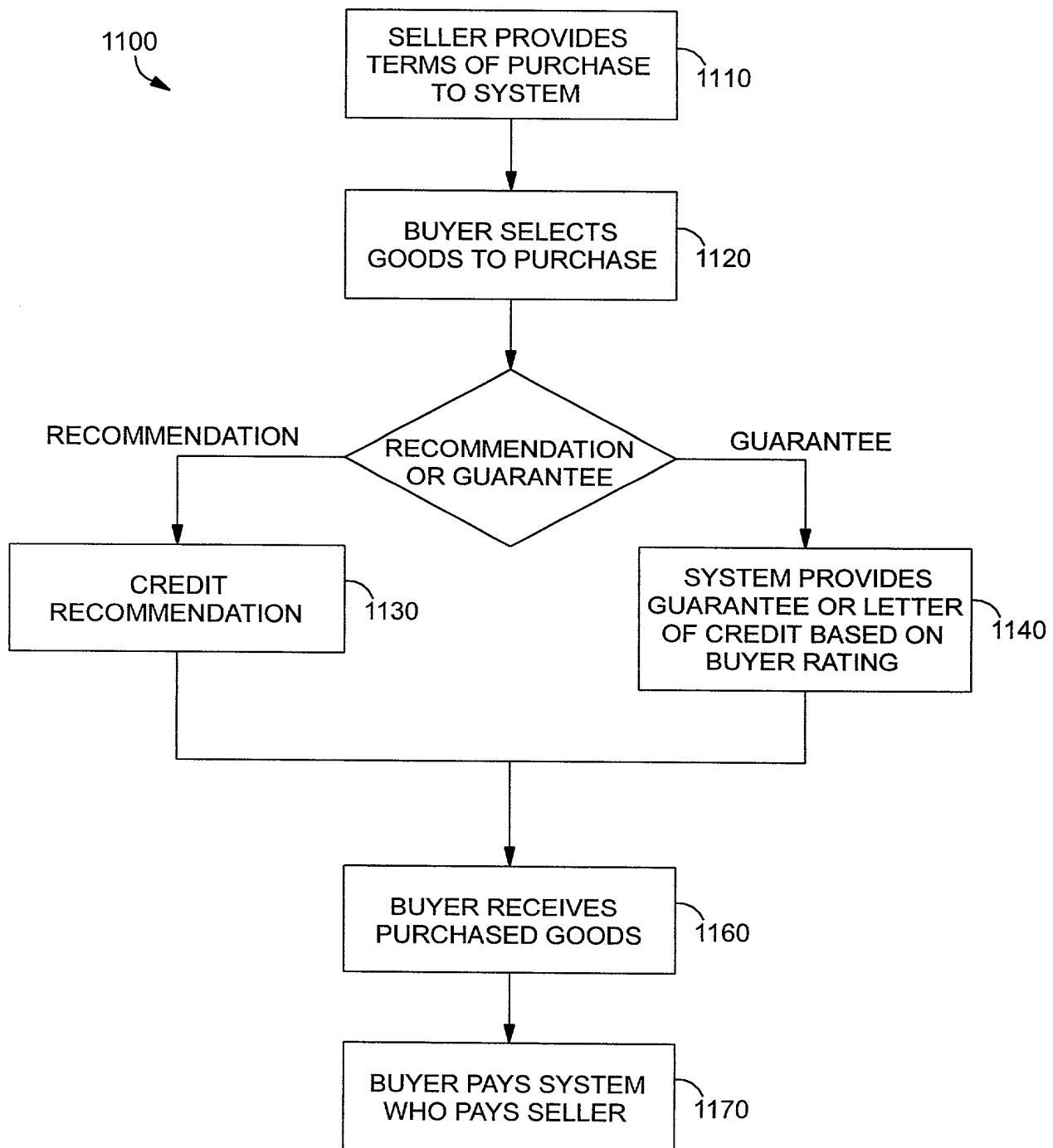


FIG. 11

1200

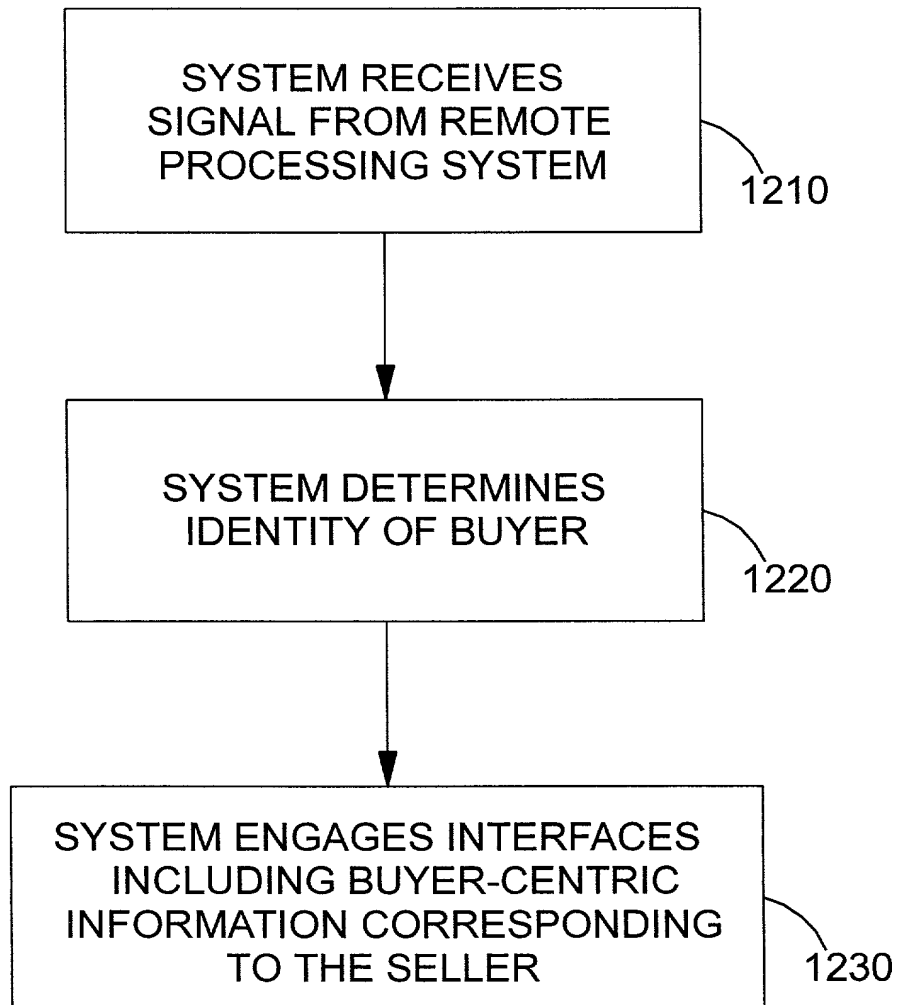


FIG. 12

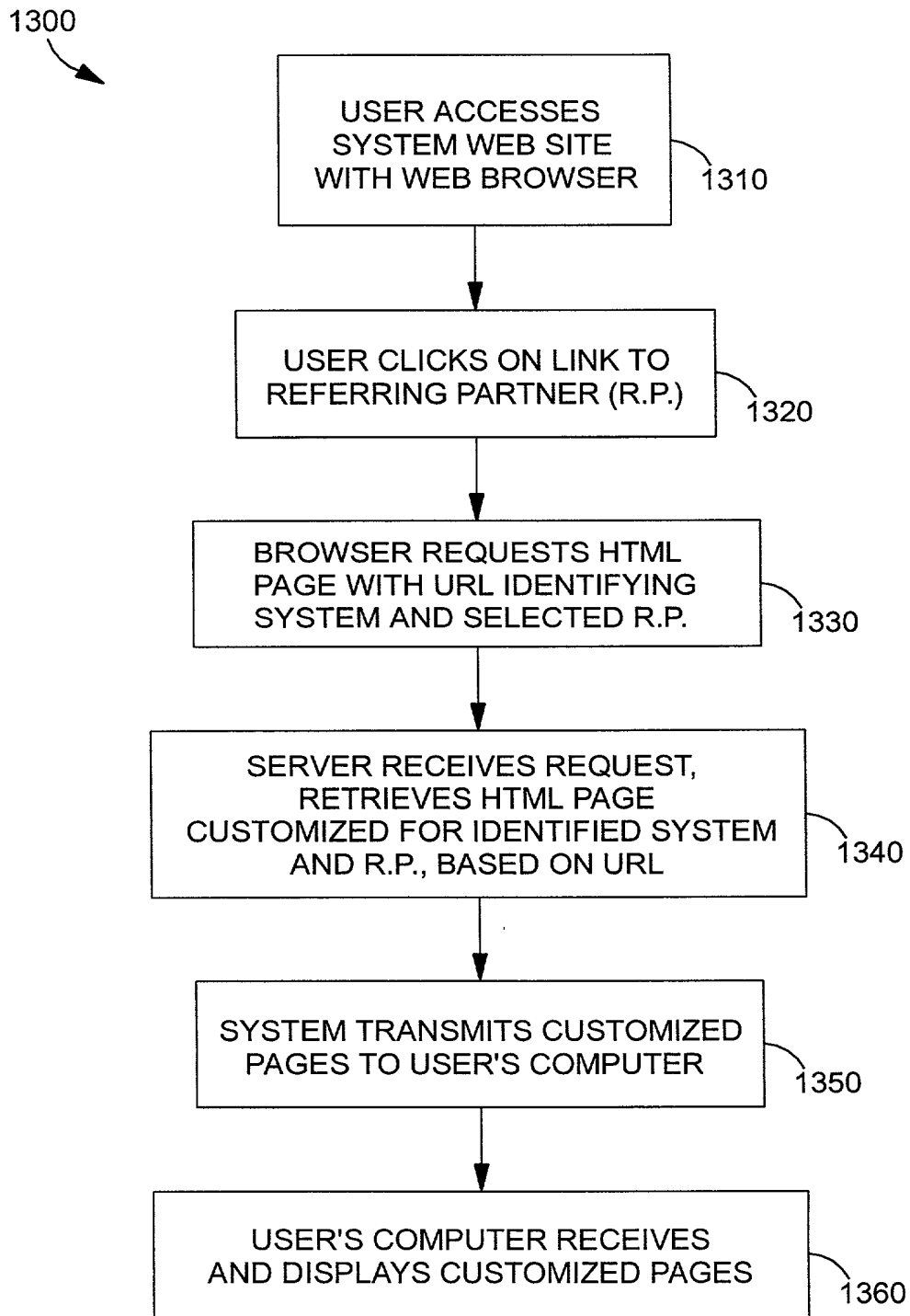


FIG. 13A

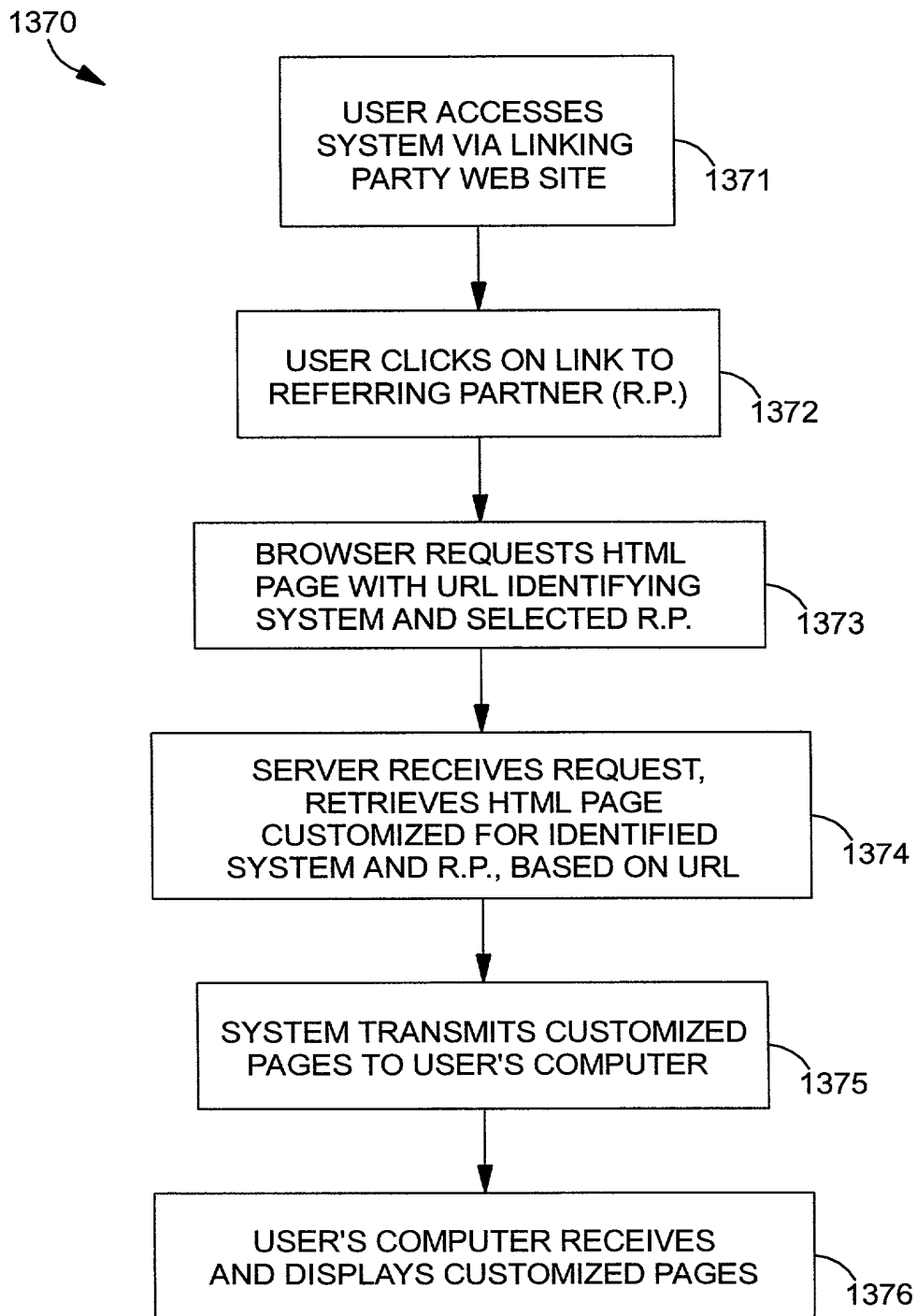


FIG. 13B

1380

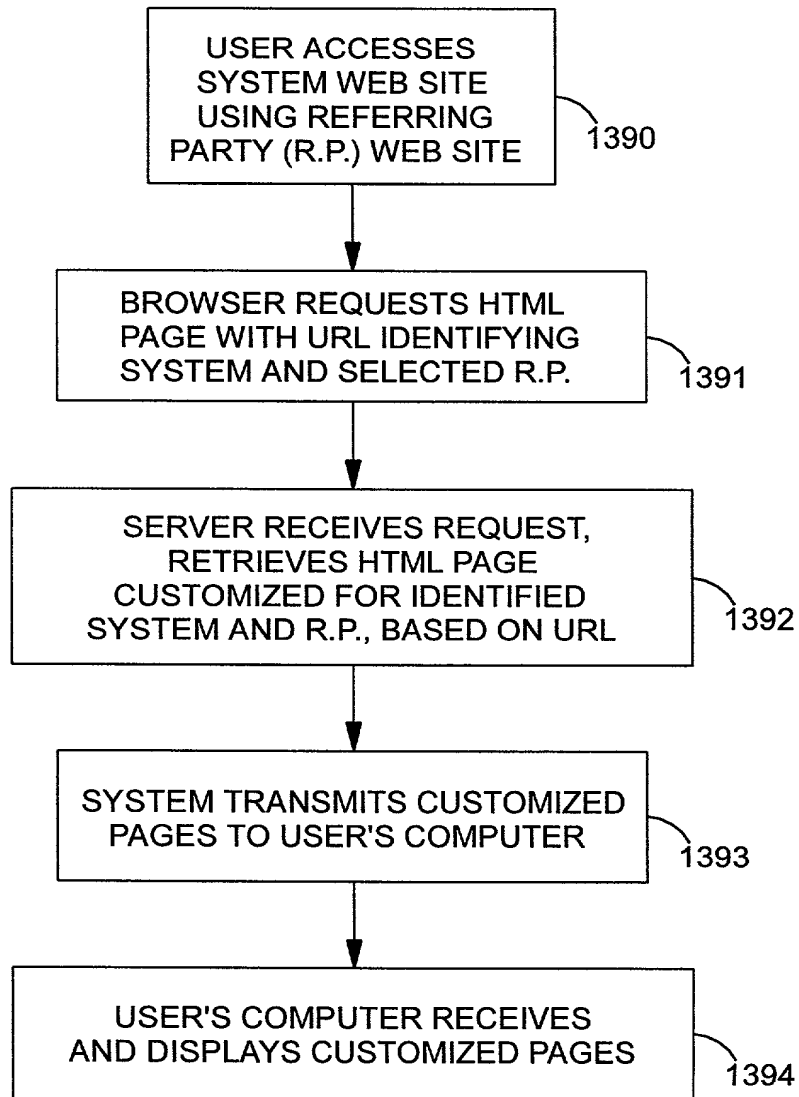


FIG. 13C

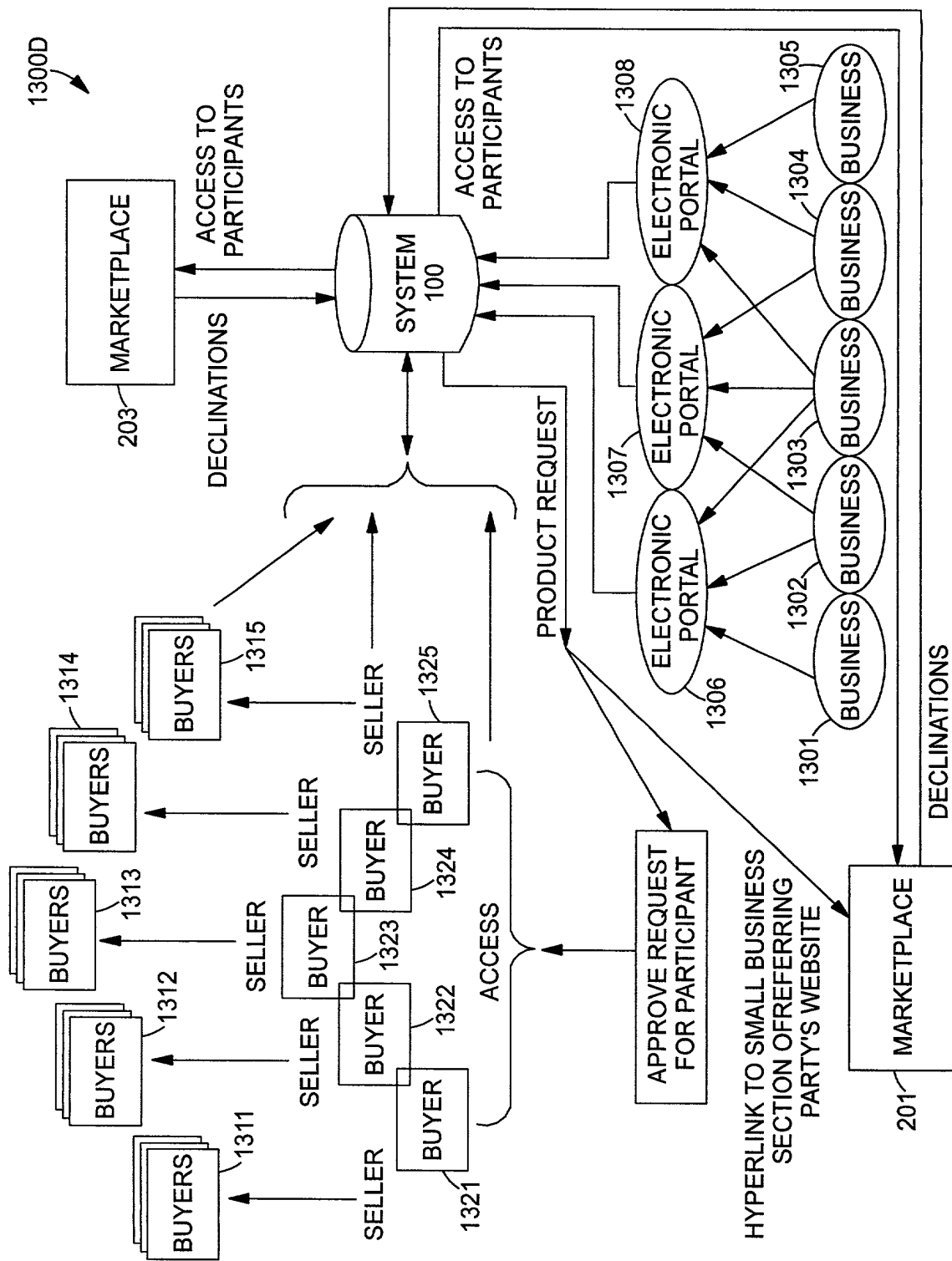


FIG. 13D

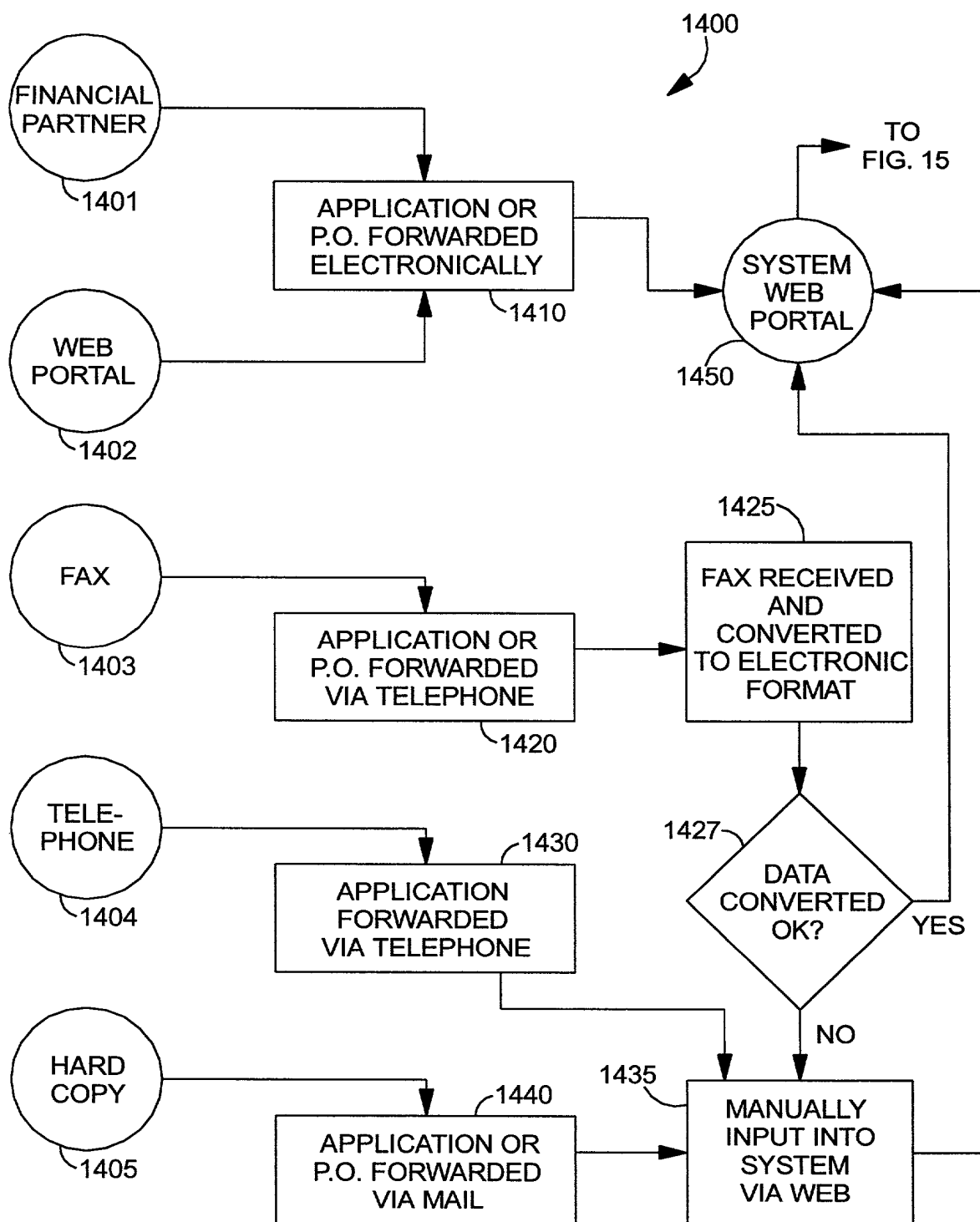


FIG. 14

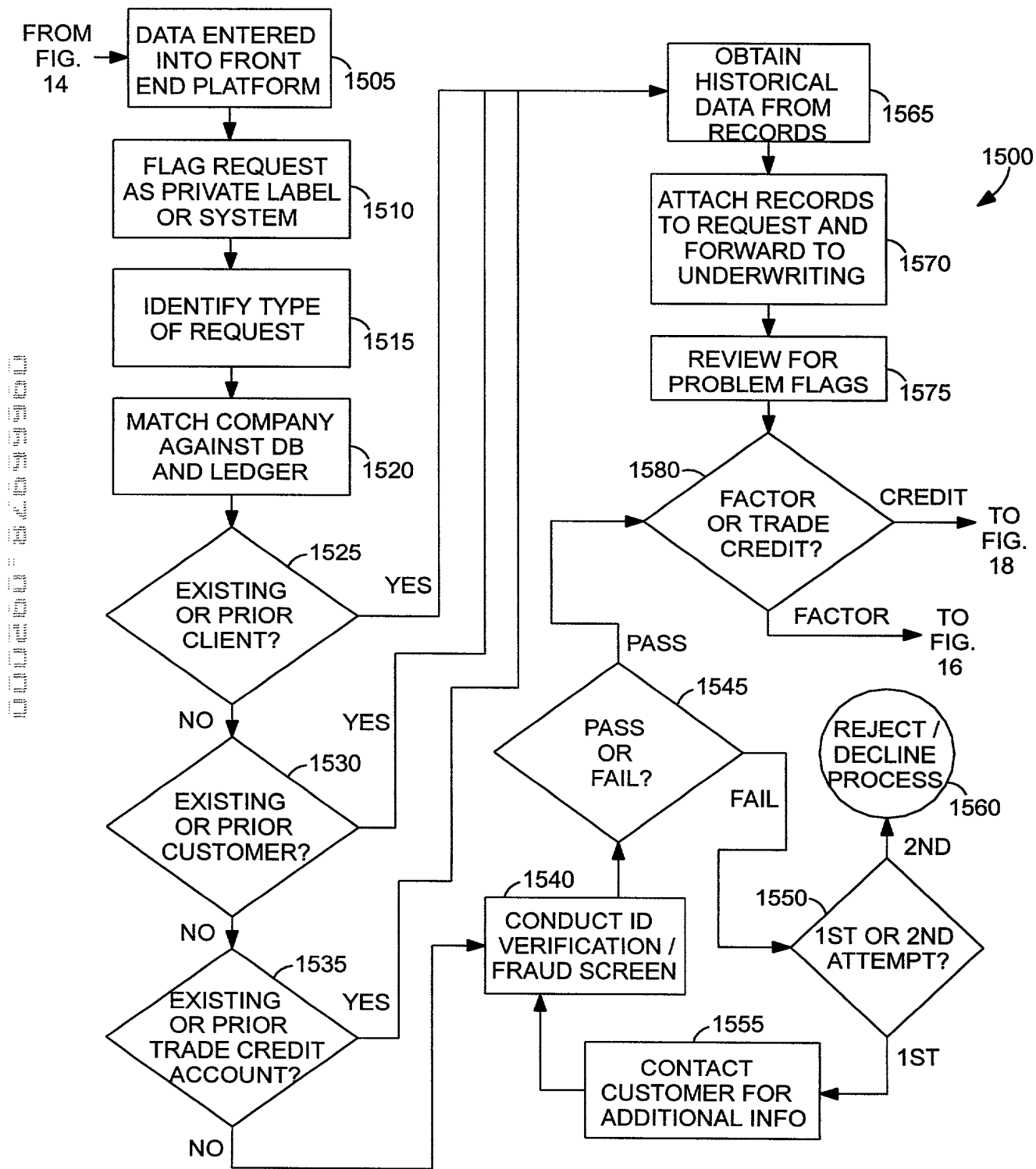


FIG. 15

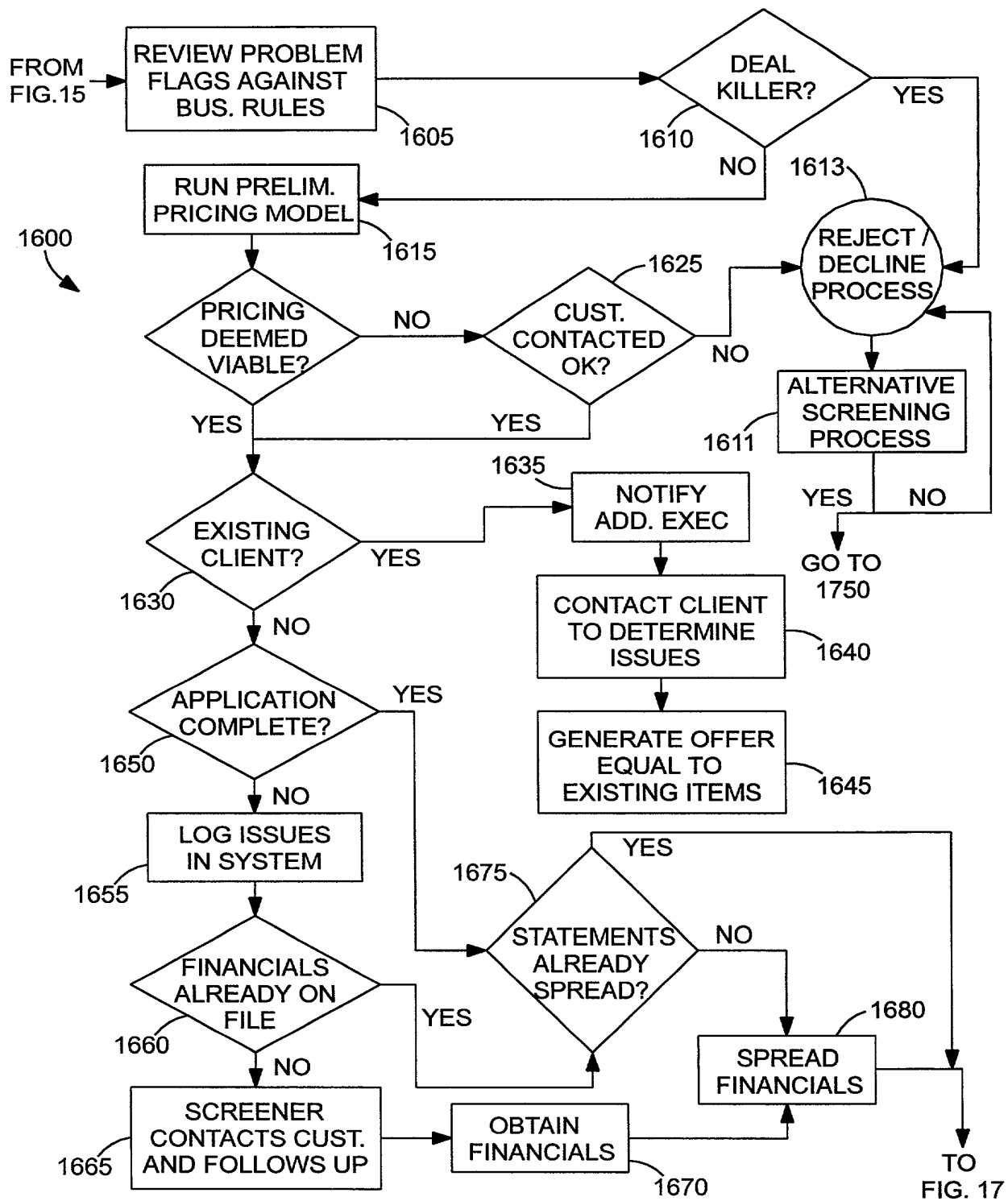


FIG. 16A

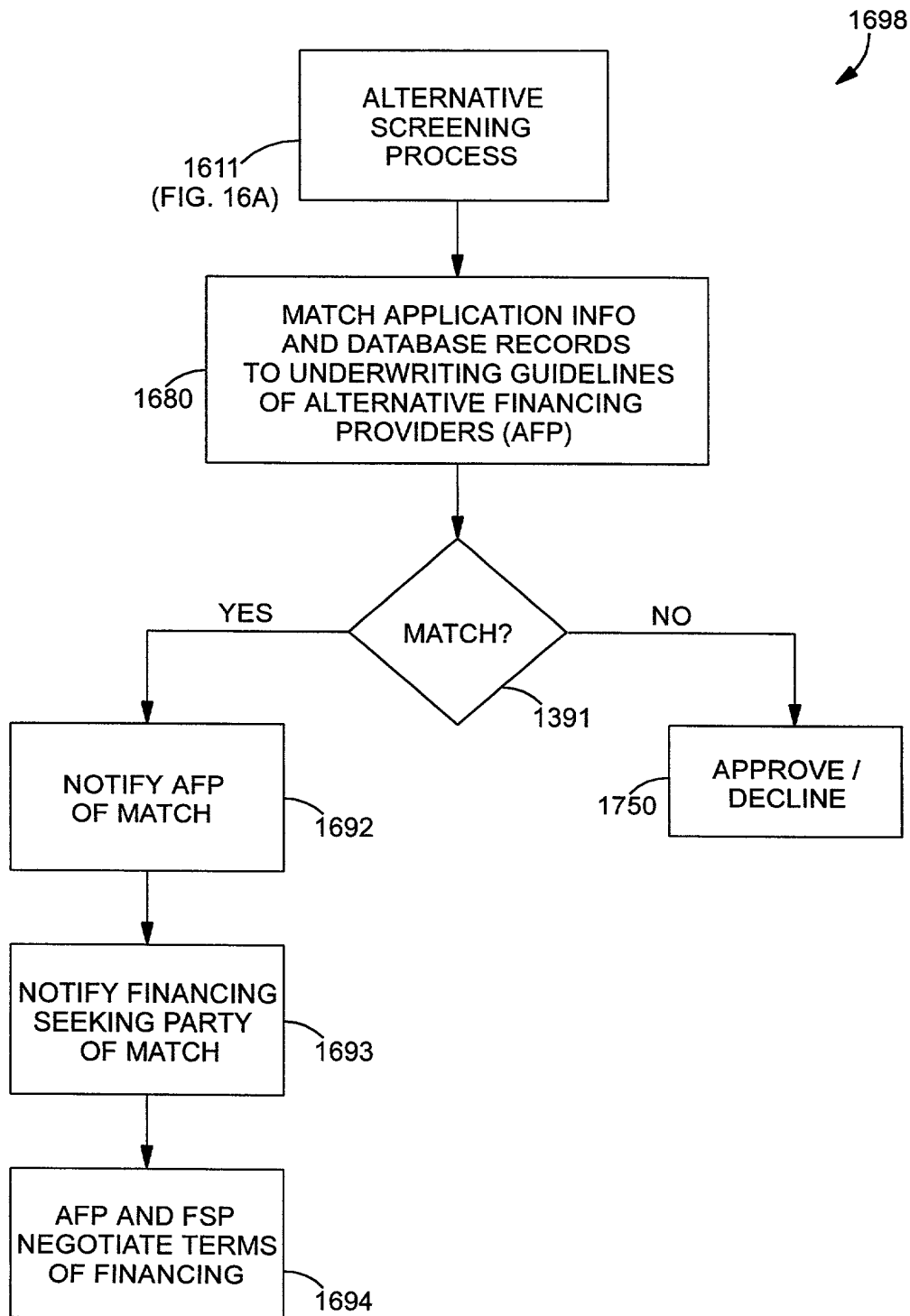


FIG. 16B

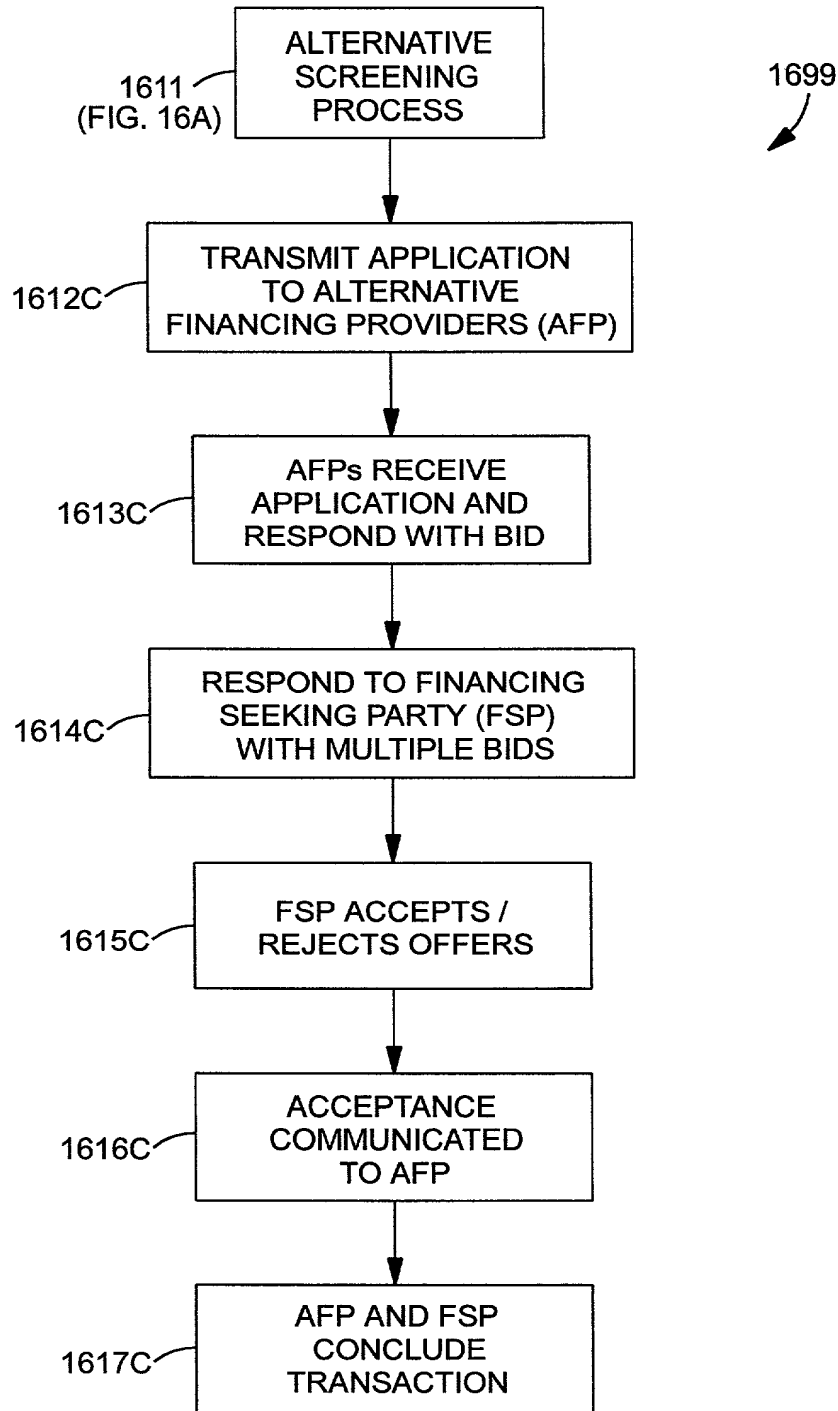


FIG. 16C

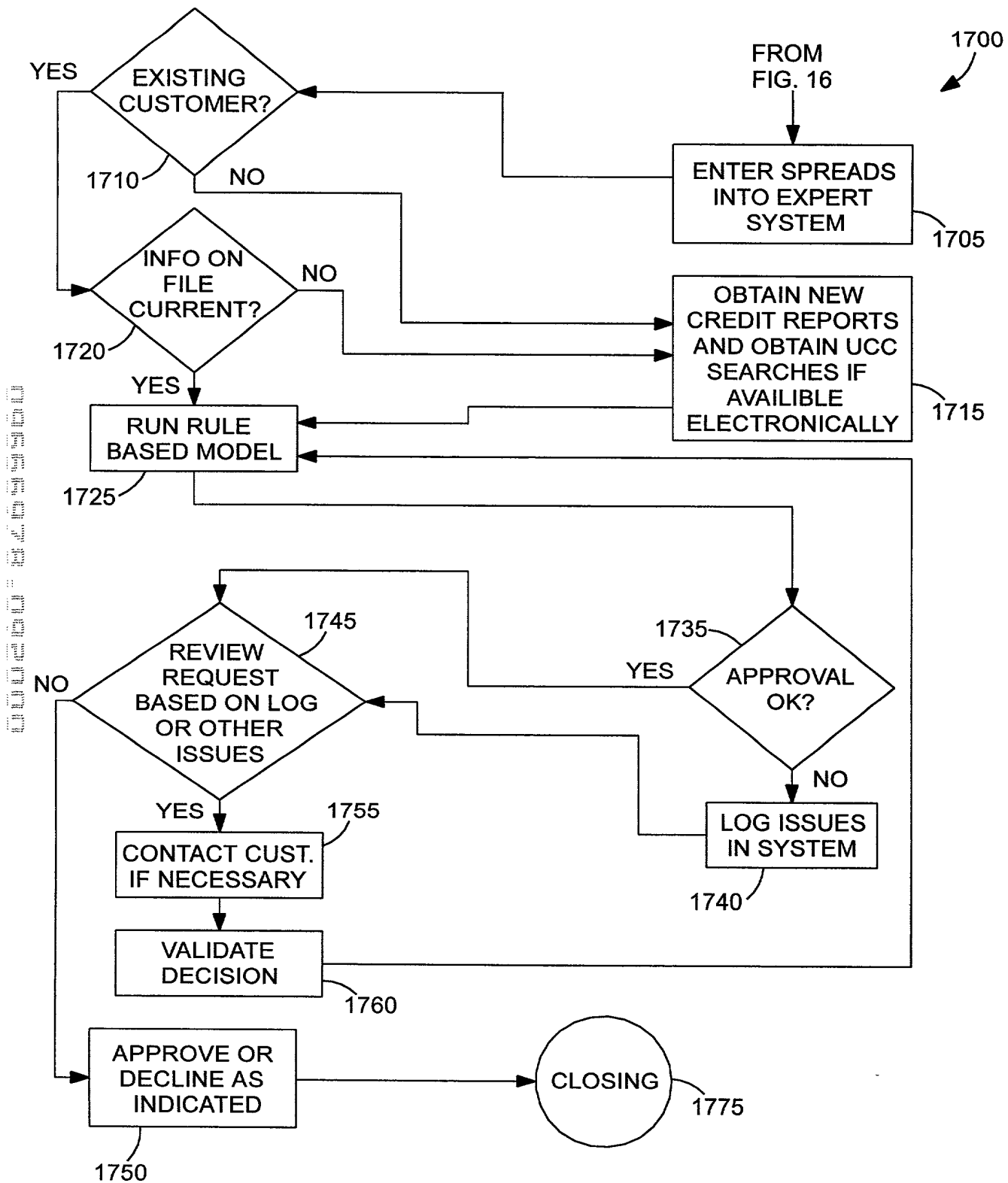


FIG. 17

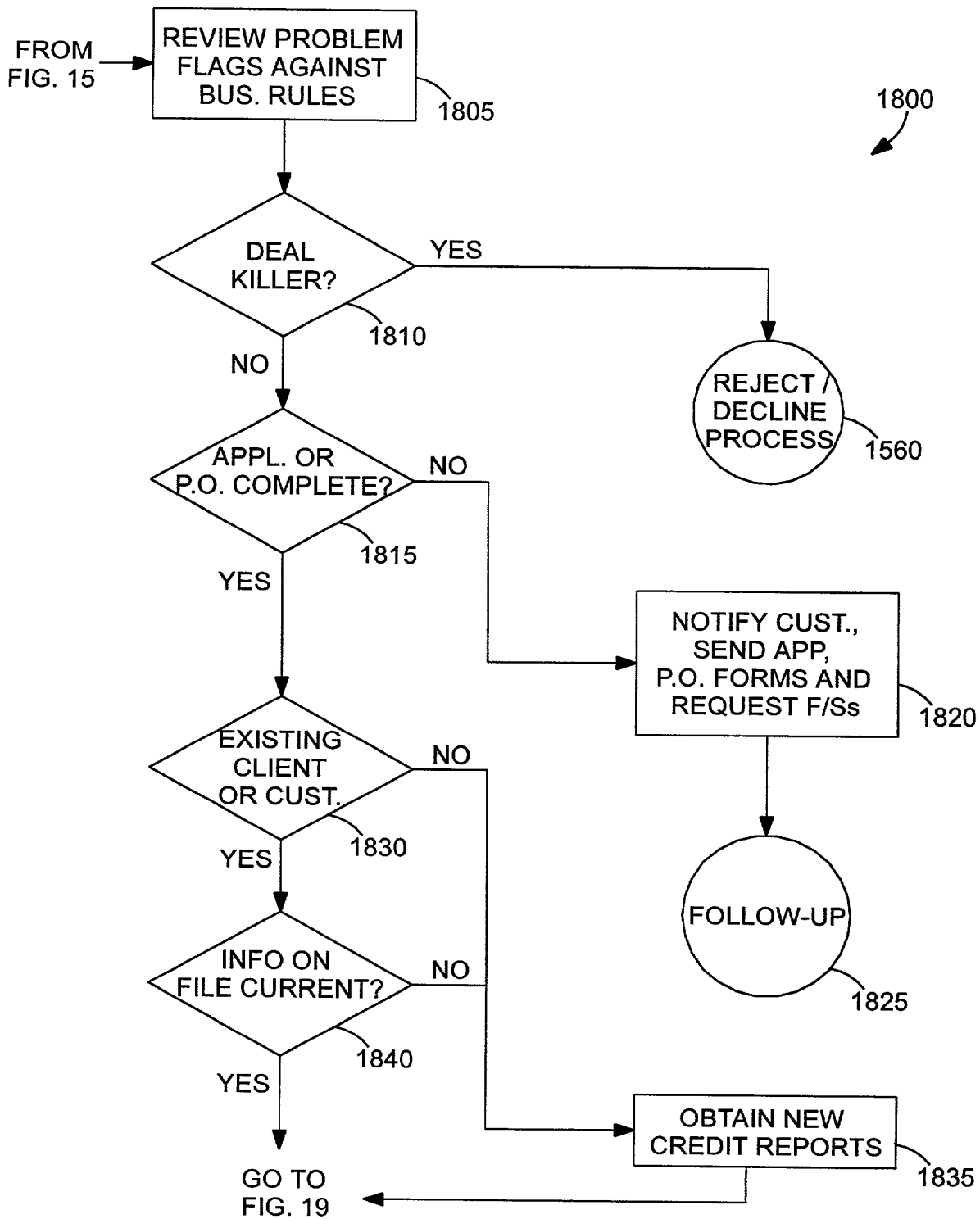


FIG. 18

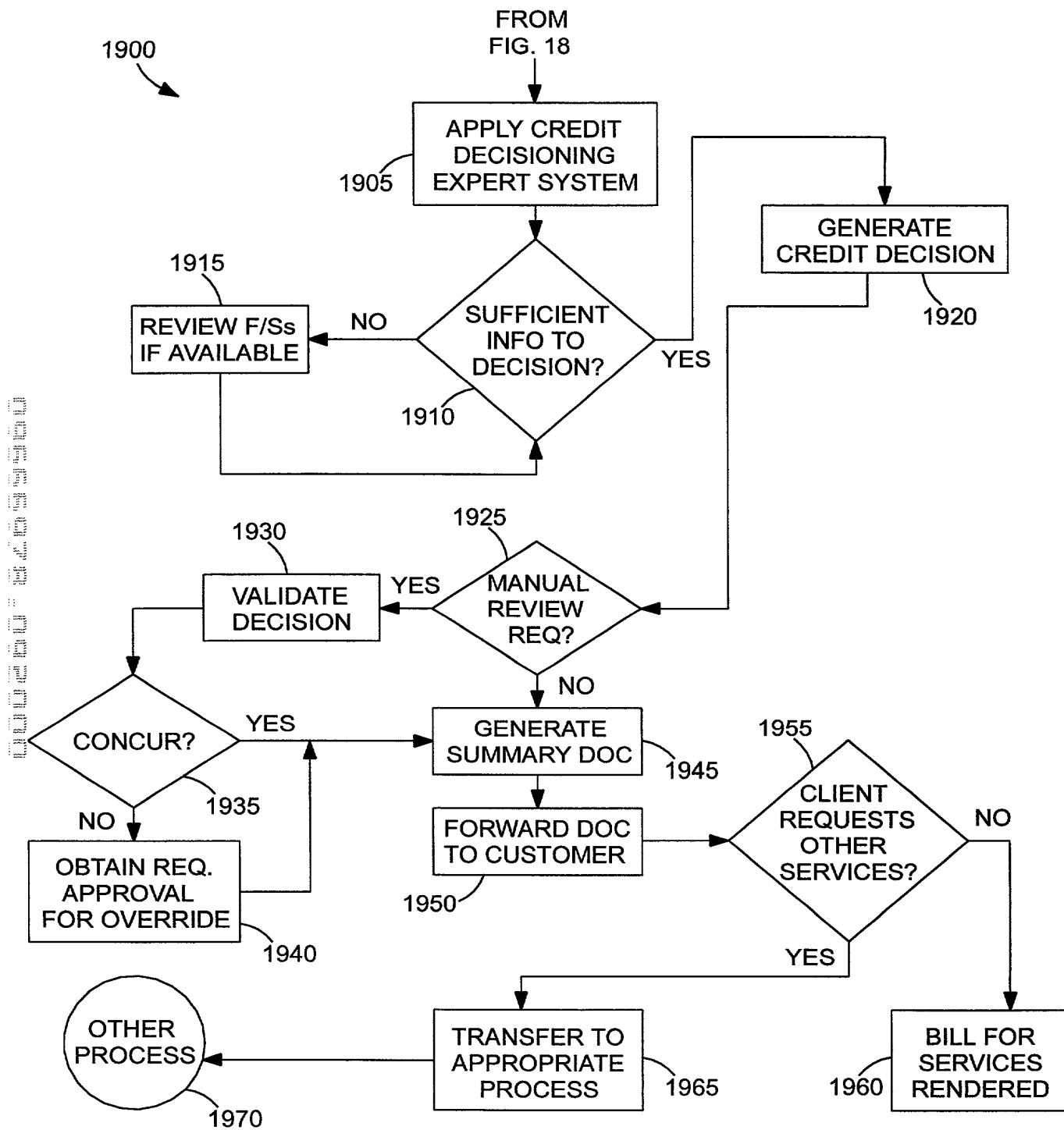


FIG. 19

- ▶ **Checking & Related Services**
- ▶ **Treasury Payment Service**
- ▶ **Payroll Payment Service**
- ▶ **Credit Card Payment Processing**
- ▶ **Loans & Lending**
- ▶ **Business Credit Card**
- ▶ **Business Banking Cards**
- ▶ **Money Market Accounts & CDs**
- ▶ **Investment & Retirement**

LSQ Systems, through our sophisticated credit modeling system will research your existing and prospective customers' past credit history and current financial status to help you determine appropriate credit limits. By utilizing our credit recommendation services you can reduce or even eliminate the risk of doubtful accounts. LSQ Systems provides an almost instantaneous response to your credit inquiry, allowing you to process sales orders immediately. Additionally we can continue to monitor your customer base and provide alerts when a customer's credit rating drops.

Our online buyer services can give you full access to the suppliers you need with friendly, easy to use controls.

Sellers

The best way to collect customer payments is to ensure the customer's ability to pay. LSQ, through our sophisticated credit modeling systems will research your existing and prospective customers' past credit history and current financial status to help you determine appropriate credit limits. By utilizing our credit recommendation services you can reduce or even eliminate the risk of doubtful accounts. LSQ provides an almost instantaneous response to your credit inquiry, allowing you to process sales orders immediately. Additionally we can continue to monitor your customer base and provide alerts when a customer's credit rating drops.

Our credit and collection services can give you a safe and secure accounts receivable portfolio, faster accounts receivable turns and overall confidence in your credit and collection procedures.

- ▶ **Checking & Related Services**
- ▶ **Teller Payment Service**
- ▶ **Payroll Payment Service**
- ▶ **Credit Card Payment Processing**
- ▶ **Loans & Lending**
- ▶ **Business Credit Card**
- ▶ **Business Banking Cards**
- ▶ **Money Market Accounts & CDs**
- ▶ **Investment & Retirement**

L.S.O. Systems offers small business owners much more than convenient and cost-effective ways to manage money. We help you finance growth, manage risk and build wealth. We will also provide a multitude of benefit programs to help you retain and reward your employees.

2010

Sellers

With those goals in mind, we can offer the products and services you need. Business checking and money market accounts. Business loans. Cash management. Commercial insurance. Direct deposit. Online banking. Retirement services. Investments.* And much more.

What do you need to succeed? Chances are you'll find it right here.

Log-on 0207

FD6231-2209900

2100

LSQ PHOTO PROJECTOR



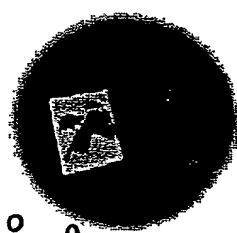
SERVICES

BUYER LOG - ON

Please enter your Customer Number and Personal Identification Number (PIN).

Customer Number: 2110

PIN: 2120



Sign On 2130

Apply Now 2140

Forgot Your Pin? 2150

Browse Test 2160

Helpful Hints 2170

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- ▶ Tax Payment Service
- ▶ Payroll Payment Service
- ▶ Credit Card Payment Processing
- ▶ Loans & Lending
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- ▶ Business Banking Cards
- ▶ Money Market Accounts & CDs
- ▶ Investment & Retirement

Writing payroll checks.

00000000000000000000

2200

LSQ PROTECTOR

LSQ

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Checking & Related Services
Tax Payment Service
Payroll Payment Service
Credit Card Payment Processing
Loans & Lending
Business Banking Cards
Money Market Accounts & CDs
Investment & Retirement

BUYER ACCOUNT STATEMENT
Arabian Nights
Tony Scaletta
6225 West Bromson Highway
Kissimmee, FL 34747

Statement as of April 07, 2000

Pay	Dispute	Tracking	P.O.	Seller	Invoice Number	Invoice Date	Due Date	Terms	Balance
<input type="checkbox"/>	<input type="checkbox"/>	121323	SW458	ABC	18801	12/07/99	02/08/00	90	777.00
<input type="checkbox"/>	<input type="checkbox"/>	123213	35833	Horizon	18745	02/02/00	03/03/00	30	186.45
<input type="checkbox"/>	<input type="checkbox"/>	123425	53434	Horizon	18888	02/09/00	03/10/00	30	18634.74
<input type="checkbox"/>	<input type="checkbox"/>	252234	SW553	ABC	18813	01/21/00	03/12/00	45	25.00
<input type="checkbox"/>	<input type="checkbox"/>	273458	SW458	ABC	18828	02/11/00	03/12/00	30	25.00
<input type="checkbox"/>	<input type="checkbox"/>	282343	78514	Wilson's	18838	01/14/00	03/15/00	60	135.00
<input type="checkbox"/>	<input type="checkbox"/>	234583	SW888	ABC	18880	02/18/00	03/19/00	30	25.00
<input type="checkbox"/>	<input type="checkbox"/>	234583	SW888	ABC	18888	03/18/00	04/19/00	30	748.00
<input type="checkbox"/>	<input type="checkbox"/>	234583	SW454	ABC	18880	03/18/00	04/19/00	30	325.00

Total Outstanding: \$21778.19

Total Disputed: \$ 0.00

Total Due: \$21778.19

Payment Selection Total: \$ 0.00

Dispute

Pay

2220

2210

2240

2230

Writing payroll checks.

FIG. 22

2500-2500

2510

LSO PHOTO PROJECTOR

UPS Tracking - Microsoft Internet Explorer

2510

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UPS

UPS TRACKING

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Customer Service

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Site Guide

SHIP

QUICK COST

TRANSIT TIME

PICKUP

DROP-OFF

SUPPLIES

Tracking Summary

1. 1Z43X 6X6 02 0000 126 1 Delivered Delivered on: Apr 11, 2000 10:46 A.M.
LAHAINA, HI, US
Delivered to: LINDEY
Service Type: 2ND DAY AIR

Tracking results provided by UPS. Apr 12, 2000 10:30 A.M. Eastern Time (USA)

NOTICE: UPS authorizes you to use UPS tracking systems solely to track shipments tendered by or for you to UPS for delivery and for no other purpose. Any other use of UPS tracking systems and information is strictly prohibited.

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Checking & Related Services
Tax Payment Service
Payroll Payment Service
Credit Card Payment
Processing
Leasing & Lending
Business Credit Card
Business Banking Cards
Money Market Accounts
Money CDs
Chase VisaSM Funds
Investment & Retirement

STOP

FIG. 25

2600

Home Search

Home Products Services

online

LSQ ONLINE

SERVICES

Checking & Related Services
Tax Payment Service
Payroll Payment Service
Credit Card Payment Processing
Loans & Lending
Business Credit Card
Business Banking Cards
Money Market Accounts
& CDs...
Money Market Funds
Investment & Retirement

STOP

online

SERVICES

↓ Reports

PAY INVOICES

Arabian Nights
Tony Scaletta
66225 West Bronson Highway
Kissimmee, FL 34747

Statement as of April 07, 2000

Tracking	P.O.	Seller	Invoice Number	Invoice Date	Date Due	Terms	Balance
123213	35833	Horizon	18745	02/02/00	03/03/00	30	186.45
123425	53434	Horizon	18808	02/08/00	03/10/00	30	18534.74
252724	5W553	ABC	18813	01/21/00	03/12/00	45	25.00
223456	5W456	ABC	18826	02/11/00	03/12/00	30	25.00
282343	78574	Willson's	18836	01/14/00	03/15/00	60	135.00
234583	5W886	ABC	18860	02/18/00	03/18/00	30	25.00

Total: 19931.19

Buy Now

Return to Invoices

Chase Operating Account

Chase Line of Credit

Chase Money Market

Check Account

Check Account

Check Account

2620

2610

F16.26



SERVICES

↓ Reports

BUYER **↓ Reports** **ACCOUNT STATEMENT**

**Arabian Nights
Tony Scaletta
6225 West Bronson Highway
Kissimmee, FL 34747**

Statement as of April 07, 2000

Pay	Dispute	Tracking	P.O.	Seller	Invoice Number	Invoice Date	Due Date	Terms	Balance
<input type="checkbox"/>	<input checked="" type="checkbox"/>	121323	SW458	ABC	18801	12/07/98	02/08/00	60	777.00
<input type="checkbox"/>	<input type="checkbox"/>	234563	SW688	ABC	18889	03/18/00	04/19/00	30	746.00
<input type="checkbox"/>	<input type="checkbox"/>	234563	SW454	ABC	18880	03/18/00	04/19/00	30	325.00
							Total Outstanding:	\$	1948.00
							Total Due:	\$	777.00
							Total Due:	\$	1071.00
							Payment Selection Total:	\$	0.00

Total Outstanding: \$	1848.00
Total Disputed: \$	777.00
Total Due: \$	1071.00
Payment Selection Total: \$	0.00

Dispute

And

STOP

Fig. 27

2900

▶ Checking A.
 ▶ Related Services
 ▶ The Payment Service
 ▶ Payroll Payment Service
 ▶ Credit Card Payment

SELLER **↓ Reports** **↓ Action Required**
DISPUTED ITEMS
 ABC, Inc.
 Richard Stroker
 1475 Broad Street
 Orlando, FL 34101

Customer	Invoice Number	P.O. Number	Invoice Amount	Date Due	Reason For Dispute	Status
Arabian Nights	18801	8W458	\$777.00	02/08/00	Wrong Item	Under Review
A.M.E. LOGISTICS, INC.	2134221	JW335	\$1,565.00	02/18/00	Damaged	Under Review

Customer	Invoice Number	P.O. Number	Invoice Amount	Date Due	Reason For Dispute	Status
Arabian Nights	18801	8W458	\$777.00	02/08/00	Wrong Item	Under Review
A.M.E. LOGISTICS, INC.	2134221	JW335	\$1,565.00	02/18/00	Damaged	Under Review

Received the wrong item...

2921

Send Response

Flg. 29

3000

ISO PHOTO PROTECTION

ISO
EXALTED

SEARCH

SEARCH

SERVICES

Business

ABOUT

CONTACT US

SELLER

Account Status

ABC, Inc.
Richard Stroker
1475 Broad Street
Orlando, FL 34101

Statement as of April 07, 2000

Current Outstandings	\$592,342.31	Intangible Receivables	\$11,505.00	Funds Employed	\$518,288.73	Current Availability	\$5333.35	Pending Schedules	1	Disputed Items	\$2,282.00	Collections	\$2,381.25
----------------------	--------------	------------------------	-------------	----------------	--------------	----------------------	-----------	-------------------	---	----------------	------------	-------------	------------

Checking & Related Services

Tax Payment Service

Payroll Payment Service

Credit Card Payment Processing

Loans & Lending

Business Credit Card

Business Banking Cards

Money Market Accounts & CDs

Check/Vista Funds

Investment & Retirement

STOP

3010

3021

3020

3030

FIG. 30

SELLER **ACCOUNT STATUS** **↓Reports** **↓Action**

**ABC, Inc.
Richard Stroker
1475 Broad Street
Orlando, FL 34101**

Statement as of April 07, 2000

Current Outstandings	Receivables	Employed	Availability	Permanently Schedules	Insured Items	Collections
<u>\$592,342.31</u>	<u>\$11,505.00</u>	<u>\$516,289.73</u>	<u>\$3333.35</u>	<u>1</u>	<u>\$2,282.00</u>	<u>\$2,391.25</u>

- **Checking & Related Services**
- **The Payment Service**
- **Payroll Payment Service**
- **Credit Card Payment Processing**
- **Loans & Lending**
- **Business Credit Card**
- **Business Banking Cards**
- **Money Market Accounts**
- **A.COs**
- **Charitable Funds**
- **Investment & Retirement**

STOP

**IT'S THE CONTROL YOU WANT.
IT'S THE EDGE YOU NEED.
IT'S EVERYWHERE YOU WANT TO BE.
CLICK HERE TO GET IT NOW!**


 100% Cotton

SUBMIT INVOICES		ADVANCE REQUEST	
From: <input type="text"/>	To: <input type="text"/>	Amount: \$ <input type="text" value="4000"/>	<input type="text"/>
Advance Request		Submit	

☐ Cancel Submission ☐ Re-Submit ☐ Done

Question ID:

Question:

Answer:

Submit

F16.31

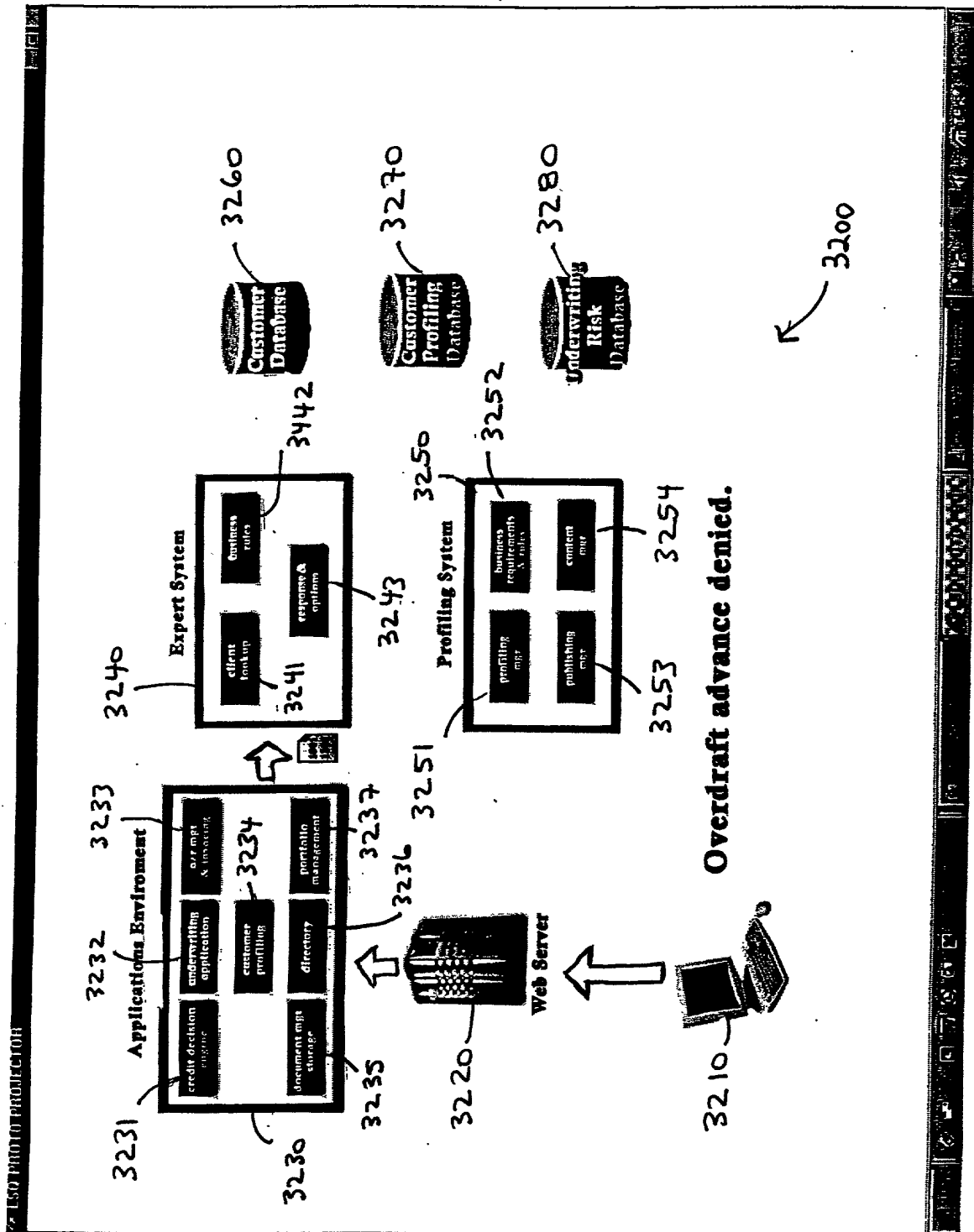


FIG. 32

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PAYERS

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HOME SERVICES PARTNERS ABOUT XYZ CONTACT US

BUYER Report

to Bill Wilson
ABC
1475 Broad Street
Orlando, FL 34101

phone: 407-203-4477, ext 205
fax: 407-203-4478
e-mail: bill@abc.com

Send: Fax Response Email Response

Notes:

Choose Report

Tracking	P.O.	Seller	Invoice Number	Invoice Date	Due Date	Terms	Balance
121322	SW458	ABC	16601	12/07/99	02/06/00	60	777.00
252234	SW553	ABC	16813	01/21/00	03/12/00	45	25.00
223456	SW456	ABC	16826	02/11/00	03/12/00	30	25.00
234563	SW696	ABC	16860	02/18/00	03/19/00	30	25.00
234563	SW698	ABC	16869	03/18/00	04/19/00	30	746.00
234563	SW454	ABC	16880	03/18/00	04/19/00	30	325.00
ABC Sub-Total:							1223.00

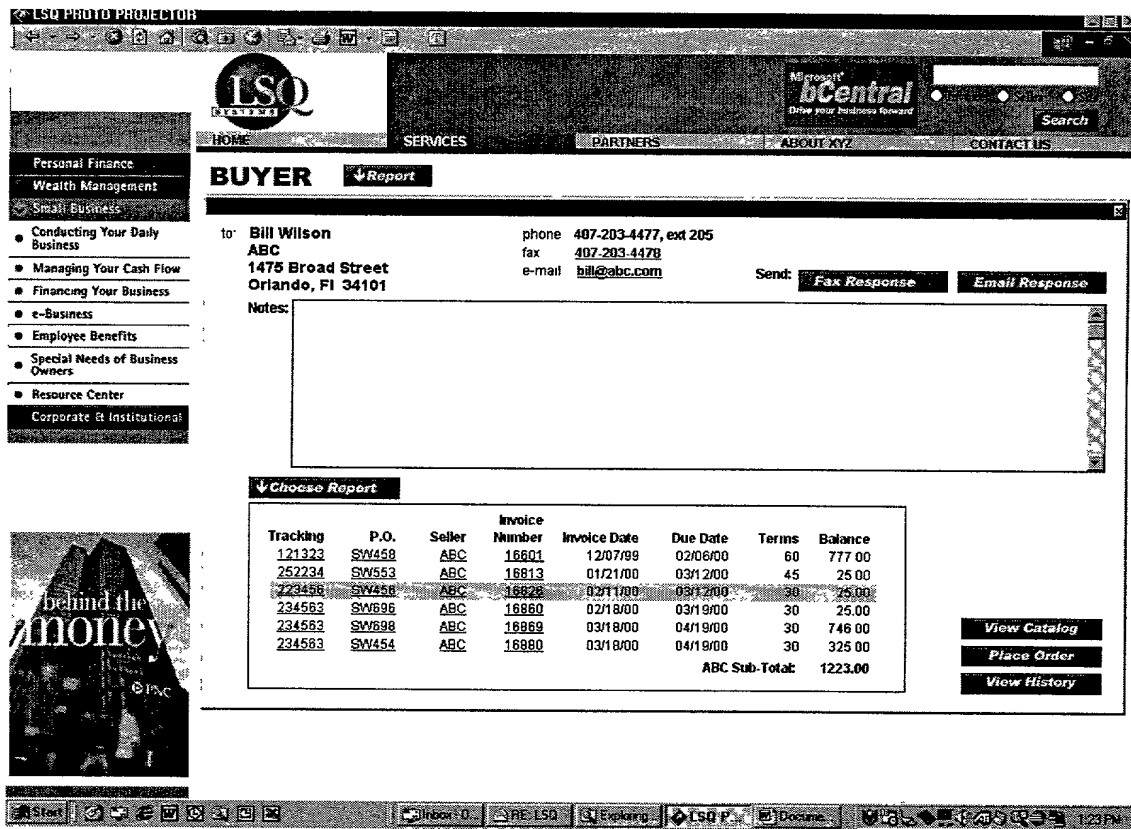
View Catalog
Place Order
View History

thinking

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3300

FIG. 33



3400

F16. 34

F16. 35

LSQ PHOTO PROJECTION

LSQ

UPS DOCUMENT EXCHANGE

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DRMP
DYER, ANDRE, MALLS & PRECOURT, INC.

041169

Invoice Number	Date	Voucher	Amount	Discounts	Previous Pay	Net Amount
245321	3/29/2000	0047390	488.04			488.04
245391	3/29/2000	0047407	-153.54			-153.54
FUTURE MEDIA PRODUCTS IN						
041 29						
Totals			314.50			314.50

PAY TO THE ORDER OF

THREE HUNDRED FOURTEEN AND 50/100 DOLLARS

AMOUNT \$314.50

LSQ FUNDING CORP. L.C.
P.O. BOX 102432
ATLANTA GA 30388-2432

APR 02, 2000

Box : 1024320 Batch : 2 Seq : 34 Amount : \$314.50 05/02/2000

3600

FIG. 36

LSQ PHOTO PROJECTOR

LSQ
Lender's Service

HOME SERVICES PARTNERS ABOUT KYZ CONTACT US

Personal Finance
Wealth Management
Small Business

- Conducting Your Daily Business
- Managing Your Cash Flow
- Financing Your Business
- e-Business
- Employee Benefits
- Special Needs of Business Owners
- Resource Center

Corporate & Institutional

SELLER Report Action Required

to Rick Stillings
Dyer, Riddle, Mills & Precourt Inc.
1505 E Colonial Drive
Orlando, FL 32803

phone: 407-565-7334, ext 15
fax: 407-565-4337
e-mail: rick@drmp.com

Send: Fax Response Email Response

Notes:

Choose Report

Date	Invoice Number	Invoice Date	Account Number	Debtor name	Invoice amount	Gross collection	Credits	Net Cash	Check #
04/02/00	<u>246321</u>	03/07/00	DRMP15	DRMP	468.04	468.04	153.54	314.50	<u>041169</u>
Relationship Totals:					468.04	468.04	153.54	314.50	

Behind the money

Start | Inbox (0) | PE:LSQ | Expanding | Docume... | LSQ P... | 1:25 PM

3800

FIG. 38

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I HEREBY DECLARE:

THAT my residence, post office address, and citizenship are as stated below next to my name;

THAT I believe I am the original, first, and sole inventor (if only one inventor is named below) or an original, first, and joint inventor (if plural inventors are named below or in an attached Declaration) of the subject matter which is claimed and for which a patent is sought on the invention entitled

**SYSTEM FOR AND METHOD OF PROVIDING FINANCIAL AND TRANSACTION
MANAGEMENT SERVICES OVER A NETWORK**

(Attorney Docket No. 46983/101)

the specification of which (check one)

 X Is attached hereto.

 Was filed on _____ as United States Application Number or PCT International Application Number _____ and was amended on _____ (if applicable).

THAT I do not know and do not believe that the same invention was ever known or used by others in the United States of America, or was patented or described in any printed publication in any country, before I (we) invented it;

THAT I do not know and do not believe that the same invention was patented or described in any printed publication in any country, or in public use or on sale in the United States of America, for more than one year prior to the filing date of this United States application;

THAT I do not know and do not believe that the same invention was first patented or made the subject of an inventor's certificate that issued in any country foreign to the United States of America before the filing date of this United States application if the foreign application was filed by me (us), or by my (our) legal representatives or assigns, more than twelve months (six months for design patents) prior to the filing date of this United States application;

THAT I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment specifically referred to above;

THAT I believe that the above-identified specification contains a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the invention, and sets forth the best mode contemplated by me of carrying out the invention; and

THAT I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.

I HEREBY CLAIM foreign priority benefits under Title 35, United States Code § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below any foreign application for patent or inventor's certificate or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number	Country	Foreign Filing Date	Priority Claimed?	Certified Copy Attached?

I HEREBY CLAIM the benefit under Title 35, United States Code § 119(e) of any United States provisional application(s) listed below.

U.S. Provisional Application Number	Filing Date
60/230856	09/07/2000

I HEREBY CLAIM the benefit under Title 35, United States Code, § 120 of any United States application(s), or § 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Parent Application Number	PCT Parent Application Number	Parent Filing Date	Parent Patent Number

I HEREBY APPOINT the following registered attorneys and agents of the law firm of FOLEY & LARDNER to have full power to prosecute this application and any continuations, divisions, reissues, and reexaminations thereof, to receive the patent, and to transact all business in the United States Patent and Trademark Office connected therewith:

RUSSELL J. BARRON	Reg. No. 29,512
DAVID J. BATES	Reg. No. 39,902
STEVEN C. BECKER	Reg. No. 42,308
DOUGLAS A. BOEHM	Reg. No. 32,014
EDWARD W. BROWN	Reg. No. 22,022
CHARLES G. CARTER	Reg. No. 35,093
ALISTAIR K. CHAN	Reg. No. 44,603

JOHN C. COOPER III	Reg. No. 26,416
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KATHERINE D. LEE	Reg. No. 44,865
KEITH D. LINDENBAUM	Reg. No. 40,365
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JAMES G. MORROW	Reg. No. 32,505
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TODD A. RATHE	Reg. No. 38,276
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CHRISTOPHER M. TUROSKI	Reg. No. 44,456
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JOSEPH N. ZIEBERT	Reg. No. 35,421
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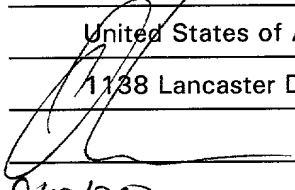
and I request that all correspondence be directed to:

Paul S. Hunter
 FOLEY & LARDNER
 Firststar Center
 777 East Wisconsin Avenue
 Milwaukee, Wisconsin 53202-5367

Telephone: (414) 297-5728
 Facsimile: (414) 297-4900

I UNDERSTAND AND AGREE THAT the foregoing attorneys and agents appointed by me to prosecute this application do not personally represent me or my legal interests, but instead represent the interests of the legal owner(s) of the invention described in this application.

I FURTHER DECLARE THAT all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Name of first inventor	A. Maxwell Eliscu
Residence	Orlando, Florida
Citizenship	United States of America
Post Office Address	1138 Lancaster Drive, Orlando, Florida 32806
Inventor's signature	
Date	9/19/00